



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

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Corner of Route IL 58 Road and Rohrssen Rd IDOT STA 432+00 to 436+50 (ISGS Site 2618-1)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.044960 Longitude: -88.217275  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.044960 Longitude: -88.217275

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B04 and B05 were sampled adjacent to ISGS Site No 2618-1. See Exhibits 2 and 2A and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015.

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

TestAmerica Lab Report No J100874. Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

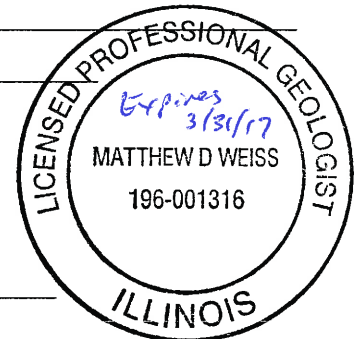
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss  
Printed Name:

[Signature]

12/16/15  
Date:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-1-B04 (0-1)	2618-1-B05 (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		mg/kg	Date Collected	09/04/2015	09/04/2015		
		pH 6.25-9.0					
<b>Semivolatile Organic Analytical Parameters</b>							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.012	0.019
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.014	0.018
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.02	0.025
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.039	0.014
Chrysene	mg/kg	1.2	2.7	88		0.015	0.023
Fluoranthene	mg/kg	2.7	4.1	3100		0.025	0.04
Phenanthrene	mg/kg	1.3	2.5	210		0.011	0.032
Pyrene	mg/kg	1.9	3.0	2300		0.021	0.034
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		10	8.5
Barium	mg/kg	---	110	1500		48	51
Cadmium	mg/kg	---	0.6	5.2		<0.11	<0.11
Chromium, total	mg/kg	---	16.2	21		17	16
Lead	mg/kg	---	36	107		13	18
Mercury	mg/kg	---	0.06	0.1		0.016	0.0084
Selenium	mg/kg	---	0.48	1.3		<0.56	<0.55
Silver	mg/kg	---	0.55	4.4		<0.28	<0.28
Antimony	mg/kg	---	4.0	5		<1.1	0.24
Beryllium	mg/kg	---	0.59	22		0.63	0.6
Calcium	mg/kg	---	9,300	---		52000	52000
Cobalt	mg/kg	---	8.9	20		11	9.8
Copper	mg/kg	---	19.6	2900		27	22
Cyanide	mg/kg	---	0.51	---		<0.59	<0.58
Iron	mg/kg	---	15,900	15000		22000	20000
Magnesium	mg/kg	---	4,820	325000		35000	30000
Manganese	mg/kg	---	636	630		520	430
Nickel	mg/kg	---	18	100		27	23
Potassium	mg/kg	---	1,268	---		2600	2500
Sodium	mg/kg	---	130	---		1400	1900
Thallium	mg/kg	---	0.32	2.6		1.6	1.2
Vanadium	mg/kg	---	25.2	550		22	21
Zinc	mg/kg	---	95	5100		49	49
pH			6.25	9		8.57	8.57
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.079	0.037
Barium,SPLP	mg/L	---	---	---		0.66	0.75
Beryllium,SPLP	mg/L	---	---	---		0.007	0.0054
Cadmium,SPLP	mg/L	---	---	---		0.002	<0.0050
Calcium,SPLP	mg/L	---	---	---		32	52
Chromium,SPLP	mg/L	---	---	---		0.17	0.085
Cobalt,SPLP	mg/L	---	---	---		0.077	0.03
Copper,SPLP	mg/L	---	---	---		0.25	0.13
Iron,SPLP	mg/L	---	---	---		190	90
Lead,SPLP	mg/L	---	---	---		0.18	0.19
Magnesium,SPLP	mg/L	---	---	---		36	25
Manganese,SPLP	mg/L	---	---	---		1.8	1.1
Mercury,SPLP	mg/L	---	---	---		<0.00020	0.00026
Nickel,SPLP	mg/L	---	---	---		0.21	0.092
Potassium,SPLP	mg/L	---	---	---		30	14
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		----	----
Thallium,SPLP	mg/L	---	---	---		0.0048	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.21	0.15
Zinc,SPLP	mg/L	---	---	---		1	0.41
Cyanide,SPLP	mg/L	---	---	---		----	----

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-1-B04 (0-1)	2618-1-B05 (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		mg/kg	Date Collected	09/04/2015	09/04/2015		
		pH 6.25-9.0					
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.38	0.44
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		0.0083	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		760	330
Cobalt,TCLP	mg/L	---	---	---		0.054	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		420	54
Manganese,TCLP	mg/L	---	---	---		11	2.6
Nickel,TCLP	mg/L	---	---	---		0.049	0.013
Potassium,TCLP	mg/L	---	---	---		2.1	3.5
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.072	0.071

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100874-4  
Client Project/Site: IDOT - Hoffman Estates - WO 08

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

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/21/2015 2:15:31 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Job ID: 500-100874-4**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100874-4

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

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

#### GC/MS Semi VOA

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

#### Metals

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.018	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.025	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.014	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.023	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.040		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.032	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.034	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.24	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	8.5		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA	
Barium	51		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.60		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA	
Chromium	16		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	9.8		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA	
Copper	22		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA	
Iron	20000		11	4.3	mg/Kg	1	☼	6010B	Total/NA	
Lead	18		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	30000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA	
Calcium	52000		11	3.6	mg/Kg	1	☼	6010B	Total/NA	
Manganese	430		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA	
Nickel	23		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA	
Thallium	1.2		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	21		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA	
Zinc	49		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA	
Potassium	2500		28	4.5	mg/Kg	1	☼	6010B	Total/NA	
Sodium	1900		55	7.3	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	330		2.5	0.50	mg/L	1		6010B	TCLP	
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP	
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.071	J	0.10	0.020	mg/L	1		6010B	TCLP	
Arsenic	0.037	J	0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.75		0.50	0.050	mg/L	1		6010B	SPLP East	
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East	
Calcium	52		2.5	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.085		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	90		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	25		2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.092		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East	
Zinc	0.41		0.10	0.020	mg/L	1		6010B	SPLP East	
Mercury	0.00026		0.00020	0.00020	mg/L	1		7470A	SPLP East	
Mercury	0.0084	J	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

## Client Sample ID: 2618-1-B05 (0-1) (Continued)

## Lab Sample ID: 500-100874-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-1-B04 (0-1)

## Lab Sample ID: 500-100874-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.020	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.025	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.6		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	760		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0083		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	420		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.072	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.079		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.66		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0070		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.077		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	36		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

## Client Sample ID: 2618-1-B04 (0-1) (Continued)

## Lab Sample ID: 500-100874-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.0		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.016	J	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-1-B03 (0-1)

## Lab Sample ID: 500-100874-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.30		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.037	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.6		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.0		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	44000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	95000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	30		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	690		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	12		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	8.3		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.24		0.10	0.020	mg/L	1		6010B	SPLP East
pH	9.31		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-1-B02 (0-1)

## Lab Sample ID: 500-100874-11

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1) (Continued)**

**Lab Sample ID: 500-100874-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzofluoranthene	0.013	J	0.038	0.0082	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.0084	J	0.038	0.0070	mg/Kg	1	*	*	8270D	Total/NA
2-Methylnaphthalene	0.0096	J	0.038	0.0070	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.0090	J	0.038	0.0053	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.0089	J	0.038	0.0076	mg/Kg	1	*	*	8270D	Total/NA
Antimony	0.30	J	1.1	0.24	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	8.7		0.57	0.26	mg/Kg	1	*	*	6010B	Total/NA
Barium	66		0.57	0.10	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1	*	*	6010B	Total/NA
Chromium	20		0.57	0.098	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	9.8		0.28	0.064	mg/Kg	1	*	*	6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1	*	*	6010B	Total/NA
Iron	25000		11	4.4	mg/Kg	1	*	*	6010B	Total/NA
Lead	60		0.28	0.14	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	19000		5.7	2.3	mg/Kg	1	*	*	6010B	Total/NA
Calcium	30000		11	3.7	mg/Kg	1	*	*	6010B	Total/NA
Manganese	600		0.57	0.11	mg/Kg	1	*	*	6010B	Total/NA
Nickel	24		0.57	0.15	mg/Kg	1	*	*	6010B	Total/NA
Thallium	1.8		0.57	0.28	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	24		0.28	0.083	mg/Kg	1	*	*	6010B	Total/NA
Zinc	48		1.1	0.36	mg/Kg	1	*	*	6010B	Total/NA
Potassium	1900		28	4.6	mg/Kg	1	*	*	6010B	Total/NA
Sodium	2000		57	7.5	mg/Kg	1	*	*	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.61		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.015	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.61		0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.020	J	0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.021	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.082		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.97		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.031		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	4.7		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.066		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.26		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.042		0.018	0.0063	mg/Kg	1	*	*	7471B	Total/NA
pH	8.80		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1) (Continued)**

**Lab Sample ID: 500-100874-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzofluoranthene	0.011	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	750		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.066		0.025	0.010	mg/L	1		6010B	TCLP
Iron	8.3		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.10		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	16		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.059		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.84		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	75		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.72		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.089		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.35		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.00029		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.043		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.85		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.042		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.029	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.035	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.039		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0041	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	700		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.059		0.025	0.010	mg/L	1		6010B	TCLP
Iron	9.2		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	300		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.061		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.63		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.76		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.96		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.5		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1) (Continued)**

**Lab Sample ID: 500-100874-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.57		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0027		0.0020	0.0020	mg/L	1		6020A	SPLP East
pH	8.76		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-8	2618-1-B05 (0-1)	Solid	09/04/15 09:20	09/04/15 21:00
500-100874-9	2618-1-B04 (0-1)	Solid	09/04/15 09:30	09/04/15 21:00
500-100874-10	2618-1-B03 (0-1)	Solid	09/04/15 09:40	09/04/15 21:00
500-100874-11	2618-1-B02 (0-1)	Solid	09/04/15 09:50	09/04/15 21:00
500-100874-12	2618-1-B02 DUP (0-1)	Solid	09/04/15 09:55	09/04/15 21:00
500-100874-13	2618-1-B01 (0-1)	Solid	09/04/15 10:00	09/04/15 21:00



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

Date Collected: 09/04/15 09:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/04/15 22:30	09/10/15 18:27	1
Dibromofluoromethane	97		75 - 120	09/04/15 22:30	09/10/15 18:27	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/04/15 22:30	09/10/15 18:27	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/10/15 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.037	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Benzo[b]fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.037	0.0081	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Chrysene</b>	<b>0.023</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Fluoranthene</b>	<b>0.040</b>		0.037	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Phenanthrene</b>	<b>0.032</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Pyrene</b>	<b>0.034</b>	<b>J</b>	0.037	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	09/09/15 16:30	09/14/15 13:46	1
2-Fluorophenol	72		25 - 110	09/09/15 16:30	09/14/15 13:46	1
Nitrobenzene-d5	60		25 - 115	09/09/15 16:30	09/14/15 13:46	1
Phenol-d5	71		31 - 110	09/09/15 16:30	09/14/15 13:46	1
Terphenyl-d14	78		36 - 134	09/09/15 16:30	09/14/15 13:46	1
2,4,6-Tribromophenol	62		35 - 137	09/09/15 16:30	09/14/15 13:46	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.24</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Arsenic</b>	<b>8.5</b>		0.55	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Barium</b>	<b>51</b>		0.55	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Beryllium</b>	<b>0.60</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Chromium</b>	<b>16</b>		0.55	0.095	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Cobalt</b>	<b>9.8</b>		0.28	0.062	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Copper</b>	<b>22</b>		0.55	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Iron</b>	<b>20000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Lead</b>	<b>18</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Magnesium</b>	<b>30000</b>		5.5	2.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Calcium</b>	<b>52000</b>		11	3.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Manganese</b>	<b>430</b>		0.55	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Nickel</b>	<b>23</b>		0.55	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Thallium</b>	<b>1.2</b>		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Vanadium</b>	<b>21</b>		0.28	0.081	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Zinc</b>	<b>49</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Potassium</b>	<b>2500</b>		28	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Sodium</b>	<b>1900</b>		55	7.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Magnesium</b>	<b>54</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Potassium</b>	<b>3.5</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:24	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Zinc</b>	<b>0.071</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.037</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Barium</b>	<b>0.75</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Calcium</b>	<b>52</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Chromium</b>	<b>0.085</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Iron</b>	<b>90</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Magnesium</b>	<b>25</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Nickel</b>	<b>0.092</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:15	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Vanadium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Zinc</b>	<b>0.41</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00026</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

Date Collected: 09/04/15 09:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:13	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J	0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 13:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:54	1
pH	8.57		0.200	0.200	SU			09/11/15 13:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

Date Collected: 09/04/15 09:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/10/15 18:51	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/10/15 18:51	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/04/15 22:30	09/10/15 18:51	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

**Date Collected: 09/04/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Benzo[b]fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Chrysene</b>	<b>0.015</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

**Date Collected: 09/04/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Phenanthrene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Pyrene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	09/09/15 16:30	09/14/15 14:39	1
2-Fluorophenol	83		25 - 110	09/09/15 16:30	09/14/15 14:39	1
Nitrobenzene-d5	74		25 - 115	09/09/15 16:30	09/14/15 14:39	1
Phenol-d5	80		31 - 110	09/09/15 16:30	09/14/15 14:39	1
Terphenyl-d14	85		36 - 134	09/09/15 16:30	09/14/15 14:39	1
2,4,6-Tribromophenol	70		35 - 137	09/09/15 16:30	09/14/15 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Arsenic</b>	<b>10</b>		0.56	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Barium</b>	<b>48</b>		0.56	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Beryllium</b>	<b>0.63</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Chromium</b>	<b>17</b>		0.56	0.096	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Cobalt</b>	<b>11</b>		0.28	0.063	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Copper</b>	<b>27</b>		0.56	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Iron</b>	<b>22000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Lead</b>	<b>13</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Magnesium</b>	<b>35000</b>		5.6	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Calcium</b>	<b>52000</b>		11	3.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Manganese</b>	<b>520</b>		0.56	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Nickel</b>	<b>27</b>		0.56	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Thallium</b>	<b>1.6</b>		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Vanadium</b>	<b>22</b>		0.28	0.082	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Zinc</b>	<b>49</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Potassium</b>	<b>2600</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Sodium</b>	<b>1400</b>		56	7.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

Date Collected: 09/04/15 09:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>760</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:30	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Lead</b>	<b>0.0083</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Magnesium</b>	<b>420</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Manganese</b>	<b>11</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Nickel</b>	<b>0.049</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Potassium</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:30	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Zinc</b>	<b>0.072</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.079</b>		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Barium</b>	<b>0.66</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Beryllium</b>	<b>0.0070</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Calcium</b>	<b>32</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Cobalt</b>	<b>0.077</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Copper</b>	<b>0.25</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Magnesium</b>	<b>36</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Nickel</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Potassium</b>	<b>30</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:22	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Zinc</b>	<b>1.0</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:44	1
<b>Thallium</b>	<b>0.0048</b>		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

Date Collected: 09/04/15 09:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:14	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 13:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:54	1
pH	8.57		0.200	0.200	SU			09/11/15 13:39	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

Date Collected: 09/04/15 09:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Bromoform	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Bromomethane	<0.0040	*	0.0040	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chlorobenzene	<0.0040		0.0040	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/04/15 22:30	09/10/15 19:15	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/10/15 19:15	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/04/15 22:30	09/10/15 19:15	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/10/15 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

**Date Collected: 09/04/15 09:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 89.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

**Date Collected: 09/04/15 09:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 89.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/09/15 16:30	09/14/15 12:01	1
2-Fluorophenol	89		25 - 110	09/09/15 16:30	09/14/15 12:01	1
Nitrobenzene-d5	77		25 - 115	09/09/15 16:30	09/14/15 12:01	1
Phenol-d5	86		31 - 110	09/09/15 16:30	09/14/15 12:01	1
Terphenyl-d14	96		36 - 134	09/09/15 16:30	09/14/15 12:01	1
2,4,6-Tribromophenol	78		35 - 137	09/09/15 16:30	09/14/15 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Arsenic</b>	<b>5.4</b>		0.55	0.25	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Barium</b>	<b>26</b>		0.55	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Beryllium</b>	<b>0.30</b>		0.22	0.047	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Cadmium</b>	<b>0.037</b> J		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Chromium</b>	<b>7.6</b>		0.55	0.094	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Cobalt</b>	<b>6.0</b>		0.27	0.062	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Copper</b>	<b>12</b>		0.55	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Iron</b>	<b>11000</b>		11	4.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Lead</b>	<b>8.6</b>		0.27	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Magnesium</b>	<b>44000</b>		5.5	2.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Calcium</b>	<b>95000</b>		110	35	mg/Kg	☼	09/10/15 18:43	09/14/15 13:35	10
<b>Manganese</b>	<b>450</b>		0.55	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Nickel</b>	<b>11</b>		0.55	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Thallium</b>	<b>1.2</b>		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Vanadium</b>	<b>14</b>		0.27	0.080	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Zinc</b>	<b>30</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Potassium</b>	<b>1100</b>		27	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Sodium</b>	<b>690</b>		55	7.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Barium</b>	<b>0.34</b> J		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

**Date Collected: 09/04/15 09:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 89.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>380</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Magnesium</b>	<b>67</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Manganese</b>	<b>0.46</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Potassium</b>	<b>3.8</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:37	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Zinc</b>	<b>0.18</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Calcium</b>	<b>23</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Chromium</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Iron</b>	<b>12</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Magnesium</b>	<b>8.3</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Potassium</b>	<b>4.4</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:29	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Vanadium</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

Date Collected: 09/04/15 09:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 89.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 13:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:55	1
pH	9.31		0.200	0.200	SU			09/11/15 13:45	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/04/15 22:30	09/10/15 19:39	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/10/15 19:39	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/04/15 22:30	09/10/15 19:39	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Benzo[b]fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Fluoranthene</b>	<b>0.0084</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>2-Methylnaphthalene</b>	<b>0.0096</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Phenanthrene</b>	<b>0.0090</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Pyrene</b>	<b>0.0089</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	09/09/15 16:30	09/14/15 15:05	1
2-Fluorophenol	69		25 - 110	09/09/15 16:30	09/14/15 15:05	1
Nitrobenzene-d5	60		25 - 115	09/09/15 16:30	09/14/15 15:05	1
Phenol-d5	66		31 - 110	09/09/15 16:30	09/14/15 15:05	1
Terphenyl-d14	77		36 - 134	09/09/15 16:30	09/14/15 15:05	1
2,4,6-Tribromophenol	60		35 - 137	09/09/15 16:30	09/14/15 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.30</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Arsenic</b>	<b>8.7</b>		0.57	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Barium</b>	<b>66</b>		0.57	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Beryllium</b>	<b>0.61</b>		0.23	0.049	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Chromium</b>	<b>20</b>		0.57	0.098	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Cobalt</b>	<b>9.8</b>		0.28	0.064	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Copper</b>	<b>25</b>		0.57	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Iron</b>	<b>25000</b>		11	4.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Lead</b>	<b>60</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Magnesium</b>	<b>19000</b>		5.7	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Calcium</b>	<b>30000</b>		11	3.7	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Manganese</b>	<b>600</b>		0.57	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Nickel</b>	<b>24</b>		0.57	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Thallium</b>	<b>1.8</b>		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Vanadium</b>	<b>24</b>		0.28	0.083	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Zinc</b>	<b>48</b>		1.1	0.36	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Potassium</b>	<b>1900</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Sodium</b>	<b>2000</b>		57	7.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>220</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:44	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Magnesium</b>	<b>68</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Manganese</b>	<b>11</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:44	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Zinc</b>	<b>0.61</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Calcium</b>	<b>44</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Chromium</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Copper</b>	<b>0.082</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Iron</b>	<b>18</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Lead</b>	<b>0.97</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Nickel</b>	<b>0.031</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:36	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Vanadium</b>	<b>0.066</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Zinc</b>	<b>0.26</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 13:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:55	1
pH	8.80		0.200	0.200	SU			09/11/15 13:51	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

**Date Collected: 09/04/15 09:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 22:30	09/10/15 20:03	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/10/15 20:03	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/04/15 22:30	09/10/15 20:03	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/10/15 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

**Date Collected: 09/04/15 09:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
<b>Fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

Date Collected: 09/04/15 09:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
<b>Pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	09/09/15 16:30	09/14/15 14:12	1
2-Fluorophenol	78		25 - 110	09/09/15 16:30	09/14/15 14:12	1
Nitrobenzene-d5	67		25 - 115	09/09/15 16:30	09/14/15 14:12	1
Phenol-d5	74		31 - 110	09/09/15 16:30	09/14/15 14:12	1
Terphenyl-d14	78		36 - 134	09/09/15 16:30	09/14/15 14:12	1
2,4,6-Tribromophenol	66		35 - 137	09/09/15 16:30	09/14/15 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.38</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Arsenic</b>	<b>10</b>		0.59	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Barium</b>	<b>52</b>		0.59	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.051	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Chromium</b>	<b>16</b>		0.59	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Cobalt</b>	<b>11</b>		0.29	0.066	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Copper</b>	<b>22</b>		0.59	0.13	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Iron</b>	<b>23000</b>		12	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Lead</b>	<b>35</b>		0.29	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Magnesium</b>	<b>30000</b>		5.9	2.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Calcium</b>	<b>51000</b>		12	3.8	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Manganese</b>	<b>520</b>		0.59	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Nickel</b>	<b>23</b>		0.59	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Thallium</b>	<b>1.3</b>		0.59	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Vanadium</b>	<b>21</b>		0.29	0.086	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Zinc</b>	<b>47</b>		1.2	0.37	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Potassium</b>	<b>2100</b>		29	4.8	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Sodium</b>	<b>1900</b>		59	7.8	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Barium</b>	<b>0.64</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

**Date Collected: 09/04/15 09:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>750</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:51	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Cobalt</b>	<b>0.066</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Iron</b>	<b>8.3</b>		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Lead</b>	<b>0.10</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Magnesium</b>	<b>310</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Manganese</b>	<b>16</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Nickel</b>	<b>0.059</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:51	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Zinc</b>	<b>0.18</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.039</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Barium</b>	<b>0.84</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Calcium</b>	<b>45</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Chromium</b>	<b>0.070</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Cobalt</b>	<b>0.044</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Iron</b>	<b>75</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Lead</b>	<b>0.72</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Nickel</b>	<b>0.089</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Potassium</b>	<b>13</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:58	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Vanadium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Zinc</b>	<b>0.35</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00029</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

Date Collected: 09/04/15 09:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 13:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:55	1
pH	8.85		0.200	0.200	SU			09/11/15 13:57	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 22:30	09/10/15 20:27	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/10/15 20:27	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 22:30	09/10/15 20:27	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 22:30	09/10/15 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[b]fluoranthene</b>	<b>0.042</b>		0.038	0.0082	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Chrysene</b>	<b>0.029</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Fluoranthene</b>	<b>0.035</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0099	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Phenanthrene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Pyrene</b>	<b>0.039</b>		0.038	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/09/15 16:30	09/14/15 15:31	1
2-Fluorophenol	80		25 - 110	09/09/15 16:30	09/14/15 15:31	1
Nitrobenzene-d5	74		25 - 115	09/09/15 16:30	09/14/15 15:31	1
Phenol-d5	77		31 - 110	09/09/15 16:30	09/14/15 15:31	1
Terphenyl-d14	96		36 - 134	09/09/15 16:30	09/14/15 15:31	1
2,4,6-Tribromophenol	73		35 - 137	09/09/15 16:30	09/14/15 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.36</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Arsenic</b>	<b>9.9</b>		0.56	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Barium</b>	<b>42</b>		0.56	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Beryllium</b>	<b>0.54</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Chromium</b>	<b>15</b>		0.56	0.096	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Cobalt</b>	<b>9.2</b>		0.28	0.063	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Copper</b>	<b>24</b>		0.56	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Iron</b>	<b>20000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Lead</b>	<b>21</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Magnesium</b>	<b>35000</b>		5.6	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Calcium</b>	<b>75000</b>		110	36	mg/Kg	☼	09/10/15 18:43	09/14/15 13:39	10
<b>Manganese</b>	<b>430</b>		0.56	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Nickel</b>	<b>23</b>		0.56	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Thallium</b>	<b>1.2</b>		0.56	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Vanadium</b>	<b>19</b>		0.28	0.082	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Zinc</b>	<b>48</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Potassium</b>	<b>2400</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Sodium</b>	<b>2500</b>		56	7.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Cadmium</b>	<b>0.0041</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>700</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Cobalt</b>	<b>0.059</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Iron</b>	<b>9.2</b>		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Magnesium</b>	<b>300</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Nickel</b>	<b>0.061</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Potassium</b>	<b>3.0</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:58	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Zinc</b>	<b>0.63</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.055</b>		0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Barium</b>	<b>0.76</b>		0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Calcium</b>	<b>45</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Chromium</b>	<b>0.098</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Cobalt</b>	<b>0.061</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Iron</b>	<b>100</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Lead</b>	<b>0.96</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Magnesium</b>	<b>25</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Potassium</b>	<b>19</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:05	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Vanadium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Zinc</b>	<b>0.57</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:47	1
<b>Thallium</b>	<b>0.0027</b>		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 13:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:56	1
pH	<b>8.76</b>		0.200	0.200	SU			09/11/15 14:03	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: MATT WEISS  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-100874

Chain of Custody Number: \_\_\_\_\_

Page 4 of 10  
 216, 312, 316, 214  
 218, 311, 311, 214, 311, 310  
 Temperature of Cooler: \_\_\_\_\_

Preservative Key

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

Client		Client Project #		Preservative		Parameter		VOCs		SVOCs		TOTAL		RLP		SPCP		PIA		
<u>TERRACON</u>		<u>1157108</u>										<u>24</u>		<u>24</u>		<u>24</u>				
Project Name		Lab Project #																		
Project Location/State		Lab PM																		
Sampler																				
<u>Hoffman Estates</u>		<u>T BOLLASIAA</u>																		
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix													
		Date	Time																	
<u>8</u>		<u>2618-1-B05 (0-1)</u>		<u>9/4/15</u>	<u>920</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>9</u>			<u>B04</u>		<u>930</u>															
<u>10</u>			<u>B03</u>		<u>940</u>															
<u>11</u>			<u>B02</u>		<u>950</u>															
<u>12</u>			<u>B02 Duplicate</u>		<u>955</u>															
<u>13</u>			<u>B01</u>		<u>1000</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/4/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1600</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1855</u>	Received By: <u>[Signature]</u> Company: <u>TA-EPT</u> Date: <u>9/4/15</u> Time: <u>2100</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: SAME SEE PD.1

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-4

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100874-4  
Client Project/Site: IDOT - Hoffman Estates - WO 08

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

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/21/2015 2:15:31 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Job ID: 500-100874-4**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100874-4

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

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

#### GC/MS Semi VOA

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

#### Metals

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.037	0.0050	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.037	0.0072	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.037	0.0081	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.037	0.011	mg/Kg	1	*	☼	8270D	Total/NA
Chrysene	0.023	J	0.037	0.010	mg/Kg	1	*	☼	8270D	Total/NA
Fluoranthene	0.040		0.037	0.0069	mg/Kg	1	*	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.037	0.0052	mg/Kg	1	*	☼	8270D	Total/NA
Pyrene	0.034	J	0.037	0.0074	mg/Kg	1	*	☼	8270D	Total/NA
Antimony	0.24	J	1.1	0.23	mg/Kg	1	*	☼	6010B	Total/NA
Arsenic	8.5		0.55	0.26	mg/Kg	1	*	☼	6010B	Total/NA
Barium	51		0.55	0.10	mg/Kg	1	*	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.048	mg/Kg	1	*	☼	6010B	Total/NA
Chromium	16		0.55	0.095	mg/Kg	1	*	☼	6010B	Total/NA
Cobalt	9.8		0.28	0.062	mg/Kg	1	*	☼	6010B	Total/NA
Copper	22		0.55	0.12	mg/Kg	1	*	☼	6010B	Total/NA
Iron	20000		11	4.3	mg/Kg	1	*	☼	6010B	Total/NA
Lead	18		0.28	0.14	mg/Kg	1	*	☼	6010B	Total/NA
Magnesium	30000		5.5	2.2	mg/Kg	1	*	☼	6010B	Total/NA
Calcium	52000		11	3.6	mg/Kg	1	*	☼	6010B	Total/NA
Manganese	430		0.55	0.11	mg/Kg	1	*	☼	6010B	Total/NA
Nickel	23		0.55	0.15	mg/Kg	1	*	☼	6010B	Total/NA
Thallium	1.2		0.55	0.27	mg/Kg	1	*	☼	6010B	Total/NA
Vanadium	21		0.28	0.081	mg/Kg	1	*	☼	6010B	Total/NA
Zinc	49		1.1	0.35	mg/Kg	1	*	☼	6010B	Total/NA
Potassium	2500		28	4.5	mg/Kg	1	*	☼	6010B	Total/NA
Sodium	1900		55	7.3	mg/Kg	1	*	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.071	J	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.037	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.75		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	52		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.085		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.030		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	90		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.19		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	25		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.092		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.41		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.00026		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.0084	J	0.019	0.0066	mg/Kg	1	*	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

## Client Sample ID: 2618-1-B05 (0-1) (Continued)

## Lab Sample ID: 500-100874-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-1-B04 (0-1)

## Lab Sample ID: 500-100874-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.020	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.025	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.6		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	760		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0083		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	420		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.072	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.079		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.66		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0070		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.077		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	36		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

## Client Sample ID: 2618-1-B04 (0-1) (Continued)

## Lab Sample ID: 500-100874-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.0		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.016	J	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-1-B03 (0-1)

## Lab Sample ID: 500-100874-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.30		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.037	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.6		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.0		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	44000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	95000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	30		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	690		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	12		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	8.3		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.24		0.10	0.020	mg/L	1		6010B	SPLP East
pH	9.31		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-1-B02 (0-1)

## Lab Sample ID: 500-100874-11

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1) (Continued)**

**Lab Sample ID: 500-100874-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzofluoranthene	0.013	J	0.038	0.0082	mg/Kg	1		*	8270D	Total/NA
Fluoranthene	0.0084	J	0.038	0.0070	mg/Kg	1		*	8270D	Total/NA
2-Methylnaphthalene	0.0096	J	0.038	0.0070	mg/Kg	1		*	8270D	Total/NA
Phenanthrene	0.0090	J	0.038	0.0053	mg/Kg	1		*	8270D	Total/NA
Pyrene	0.0089	J	0.038	0.0076	mg/Kg	1		*	8270D	Total/NA
Antimony	0.30	J	1.1	0.24	mg/Kg	1		*	6010B	Total/NA
Arsenic	8.7		0.57	0.26	mg/Kg	1		*	6010B	Total/NA
Barium	66		0.57	0.10	mg/Kg	1		*	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1		*	6010B	Total/NA
Chromium	20		0.57	0.098	mg/Kg	1		*	6010B	Total/NA
Cobalt	9.8		0.28	0.064	mg/Kg	1		*	6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1		*	6010B	Total/NA
Iron	25000		11	4.4	mg/Kg	1		*	6010B	Total/NA
Lead	60		0.28	0.14	mg/Kg	1		*	6010B	Total/NA
Magnesium	19000		5.7	2.3	mg/Kg	1		*	6010B	Total/NA
Calcium	30000		11	3.7	mg/Kg	1		*	6010B	Total/NA
Manganese	600		0.57	0.11	mg/Kg	1		*	6010B	Total/NA
Nickel	24		0.57	0.15	mg/Kg	1		*	6010B	Total/NA
Thallium	1.8		0.57	0.28	mg/Kg	1		*	6010B	Total/NA
Vanadium	24		0.28	0.083	mg/Kg	1		*	6010B	Total/NA
Zinc	48		1.1	0.36	mg/Kg	1		*	6010B	Total/NA
Potassium	1900		28	4.6	mg/Kg	1		*	6010B	Total/NA
Sodium	2000		57	7.5	mg/Kg	1		*	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.61		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.015	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.61		0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.020	J	0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.021	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.082		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.97		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.031		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	4.7		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.066		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.26		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.042		0.018	0.0063	mg/Kg	1		*	7471B	Total/NA
pH	8.80		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1) (Continued)**

**Lab Sample ID: 500-100874-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzofluoranthene	0.011	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	750		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.066		0.025	0.010	mg/L	1		6010B	TCLP
Iron	8.3		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.10		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	16		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.059		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.84		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	75		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.72		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.089		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.35		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.00029		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.043		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.85		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.042		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.029	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.035	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.039		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0041	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	700		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.059		0.025	0.010	mg/L	1		6010B	TCLP
Iron	9.2		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	300		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.061		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.63		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.76		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.96		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.5		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1) (Continued)**

**Lab Sample ID: 500-100874-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.57		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0027		0.0020	0.0020	mg/L	1		6020A	SPLP East
pH	8.76		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-8	2618-1-B05 (0-1)	Solid	09/04/15 09:20	09/04/15 21:00
500-100874-9	2618-1-B04 (0-1)	Solid	09/04/15 09:30	09/04/15 21:00
500-100874-10	2618-1-B03 (0-1)	Solid	09/04/15 09:40	09/04/15 21:00
500-100874-11	2618-1-B02 (0-1)	Solid	09/04/15 09:50	09/04/15 21:00
500-100874-12	2618-1-B02 DUP (0-1)	Solid	09/04/15 09:55	09/04/15 21:00
500-100874-13	2618-1-B01 (0-1)	Solid	09/04/15 10:00	09/04/15 21:00



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/04/15 22:30	09/10/15 18:27	1
Dibromofluoromethane	97		75 - 120	09/04/15 22:30	09/10/15 18:27	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/04/15 22:30	09/10/15 18:27	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/10/15 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.037	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Benzo[b]fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.037	0.0081	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Chrysene</b>	<b>0.023</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Fluoranthene</b>	<b>0.040</b>		0.037	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Phenanthrene</b>	<b>0.032</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
<b>Pyrene</b>	<b>0.034</b>	<b>J</b>	0.037	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	09/09/15 16:30	09/14/15 13:46	1
2-Fluorophenol	72		25 - 110	09/09/15 16:30	09/14/15 13:46	1
Nitrobenzene-d5	60		25 - 115	09/09/15 16:30	09/14/15 13:46	1
Phenol-d5	71		31 - 110	09/09/15 16:30	09/14/15 13:46	1
Terphenyl-d14	78		36 - 134	09/09/15 16:30	09/14/15 13:46	1
2,4,6-Tribromophenol	62		35 - 137	09/09/15 16:30	09/14/15 13:46	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.24</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Arsenic</b>	<b>8.5</b>		0.55	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Barium</b>	<b>51</b>		0.55	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Beryllium</b>	<b>0.60</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Chromium</b>	<b>16</b>		0.55	0.095	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Cobalt</b>	<b>9.8</b>		0.28	0.062	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Copper</b>	<b>22</b>		0.55	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Iron</b>	<b>20000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Lead</b>	<b>18</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Magnesium</b>	<b>30000</b>		5.5	2.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Calcium</b>	<b>52000</b>		11	3.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Manganese</b>	<b>430</b>		0.55	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Nickel</b>	<b>23</b>		0.55	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Thallium</b>	<b>1.2</b>		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Vanadium</b>	<b>21</b>		0.28	0.081	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Zinc</b>	<b>49</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Potassium</b>	<b>2500</b>		28	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1
<b>Sodium</b>	<b>1900</b>		55	7.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Magnesium</b>	<b>54</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Potassium</b>	<b>3.5</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:24	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:24	1
<b>Zinc</b>	<b>0.071</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.037</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Barium</b>	<b>0.75</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Calcium</b>	<b>52</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Chromium</b>	<b>0.085</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Iron</b>	<b>90</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Magnesium</b>	<b>25</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Nickel</b>	<b>0.092</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:15	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Vanadium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:15	1
<b>Zinc</b>	<b>0.41</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00026</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B05 (0-1)**

**Lab Sample ID: 500-100874-8**

Date Collected: 09/04/15 09:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:13	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J	0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 13:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:54	1
pH	8.57		0.200	0.200	SU			09/11/15 13:33	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

Date Collected: 09/04/15 09:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/10/15 18:51	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/10/15 18:51	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/04/15 22:30	09/10/15 18:51	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

**Date Collected: 09/04/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Benzo[b]fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Chrysene</b>	<b>0.015</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

**Date Collected: 09/04/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Phenanthrene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
<b>Pyrene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	09/09/15 16:30	09/14/15 14:39	1
2-Fluorophenol	83		25 - 110	09/09/15 16:30	09/14/15 14:39	1
Nitrobenzene-d5	74		25 - 115	09/09/15 16:30	09/14/15 14:39	1
Phenol-d5	80		31 - 110	09/09/15 16:30	09/14/15 14:39	1
Terphenyl-d14	85		36 - 134	09/09/15 16:30	09/14/15 14:39	1
2,4,6-Tribromophenol	70		35 - 137	09/09/15 16:30	09/14/15 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Arsenic</b>	<b>10</b>		0.56	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Barium</b>	<b>48</b>		0.56	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Beryllium</b>	<b>0.63</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Chromium</b>	<b>17</b>		0.56	0.096	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Cobalt</b>	<b>11</b>		0.28	0.063	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Copper</b>	<b>27</b>		0.56	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Iron</b>	<b>22000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Lead</b>	<b>13</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Magnesium</b>	<b>35000</b>		5.6	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Calcium</b>	<b>52000</b>		11	3.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Manganese</b>	<b>520</b>		0.56	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Nickel</b>	<b>27</b>		0.56	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Thallium</b>	<b>1.6</b>		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Vanadium</b>	<b>22</b>		0.28	0.082	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Zinc</b>	<b>49</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Potassium</b>	<b>2600</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1
<b>Sodium</b>	<b>1400</b>		56	7.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

Date Collected: 09/04/15 09:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>760</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:30	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Lead</b>	<b>0.0083</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Magnesium</b>	<b>420</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Manganese</b>	<b>11</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Nickel</b>	<b>0.049</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Potassium</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:30	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:30	1
<b>Zinc</b>	<b>0.072</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.079</b>		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Barium</b>	<b>0.66</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Beryllium</b>	<b>0.0070</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Calcium</b>	<b>32</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Cobalt</b>	<b>0.077</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Copper</b>	<b>0.25</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Magnesium</b>	<b>36</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Nickel</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Potassium</b>	<b>30</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:22	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:22	1
<b>Zinc</b>	<b>1.0</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:44	1
<b>Thallium</b>	<b>0.0048</b>		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B04 (0-1)**

**Lab Sample ID: 500-100874-9**

Date Collected: 09/04/15 09:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:14	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 13:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:54	1
pH	8.57		0.200	0.200	SU			09/11/15 13:39	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

Date Collected: 09/04/15 09:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Bromoform	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Bromomethane	<0.0040	*	0.0040	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chlorobenzene	<0.0040		0.0040	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/04/15 22:30	09/10/15 19:15	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/10/15 19:15	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/04/15 22:30	09/10/15 19:15	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/10/15 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

**Date Collected: 09/04/15 09:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 89.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

**Date Collected: 09/04/15 09:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 89.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/09/15 16:30	09/14/15 12:01	1
2-Fluorophenol	89		25 - 110	09/09/15 16:30	09/14/15 12:01	1
Nitrobenzene-d5	77		25 - 115	09/09/15 16:30	09/14/15 12:01	1
Phenol-d5	86		31 - 110	09/09/15 16:30	09/14/15 12:01	1
Terphenyl-d14	96		36 - 134	09/09/15 16:30	09/14/15 12:01	1
2,4,6-Tribromophenol	78		35 - 137	09/09/15 16:30	09/14/15 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Arsenic</b>	<b>5.4</b>		0.55	0.25	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Barium</b>	<b>26</b>		0.55	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Beryllium</b>	<b>0.30</b>		0.22	0.047	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Cadmium</b>	<b>0.037</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Chromium</b>	<b>7.6</b>		0.55	0.094	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Cobalt</b>	<b>6.0</b>		0.27	0.062	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Copper</b>	<b>12</b>		0.55	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Iron</b>	<b>11000</b>		11	4.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Lead</b>	<b>8.6</b>		0.27	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Magnesium</b>	<b>44000</b>		5.5	2.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Calcium</b>	<b>95000</b>		110	35	mg/Kg	☼	09/10/15 18:43	09/14/15 13:35	10
<b>Manganese</b>	<b>450</b>		0.55	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Nickel</b>	<b>11</b>		0.55	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Thallium</b>	<b>1.2</b>		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Vanadium</b>	<b>14</b>		0.27	0.080	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Zinc</b>	<b>30</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Potassium</b>	<b>1100</b>		27	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1
<b>Sodium</b>	<b>690</b>		55	7.2	mg/Kg	☼	09/10/15 18:43	09/12/15 08:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:37	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

**Date Collected: 09/04/15 09:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 89.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>380</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Magnesium</b>	<b>67</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Manganese</b>	<b>0.46</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Potassium</b>	<b>3.8</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:37	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:37	1
<b>Zinc</b>	<b>0.18</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Calcium</b>	<b>23</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Chromium</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Iron</b>	<b>12</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Magnesium</b>	<b>8.3</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Potassium</b>	<b>4.4</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:29	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Vanadium</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:29	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B03 (0-1)**

**Lab Sample ID: 500-100874-10**

**Date Collected: 09/04/15 09:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 89.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 13:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:55	1
pH	<b>9.31</b>		0.200	0.200	SU			09/11/15 13:45	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/04/15 22:30	09/10/15 19:39	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/10/15 19:39	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/04/15 22:30	09/10/15 19:39	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Benzo[b]fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Fluoranthene</b>	<b>0.0084</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>2-Methylnaphthalene</b>	<b>0.0096</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Phenanthrene</b>	<b>0.0090</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
<b>Pyrene</b>	<b>0.0089</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	09/09/15 16:30	09/14/15 15:05	1
2-Fluorophenol	69		25 - 110	09/09/15 16:30	09/14/15 15:05	1
Nitrobenzene-d5	60		25 - 115	09/09/15 16:30	09/14/15 15:05	1
Phenol-d5	66		31 - 110	09/09/15 16:30	09/14/15 15:05	1
Terphenyl-d14	77		36 - 134	09/09/15 16:30	09/14/15 15:05	1
2,4,6-Tribromophenol	60		35 - 137	09/09/15 16:30	09/14/15 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.30</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Arsenic</b>	<b>8.7</b>		0.57	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Barium</b>	<b>66</b>		0.57	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Beryllium</b>	<b>0.61</b>		0.23	0.049	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Chromium</b>	<b>20</b>		0.57	0.098	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Cobalt</b>	<b>9.8</b>		0.28	0.064	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Copper</b>	<b>25</b>		0.57	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Iron</b>	<b>25000</b>		11	4.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Lead</b>	<b>60</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Magnesium</b>	<b>19000</b>		5.7	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Calcium</b>	<b>30000</b>		11	3.7	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Manganese</b>	<b>600</b>		0.57	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Nickel</b>	<b>24</b>		0.57	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Thallium</b>	<b>1.8</b>		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Vanadium</b>	<b>24</b>		0.28	0.083	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Zinc</b>	<b>48</b>		1.1	0.36	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Potassium</b>	<b>1900</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1
<b>Sodium</b>	<b>2000</b>		57	7.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>220</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:44	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Magnesium</b>	<b>68</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Manganese</b>	<b>11</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:44	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:44	1
<b>Zinc</b>	<b>0.61</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Calcium</b>	<b>44</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Chromium</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Copper</b>	<b>0.082</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Iron</b>	<b>18</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Lead</b>	<b>0.97</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Nickel</b>	<b>0.031</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:36	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Vanadium</b>	<b>0.066</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:36	1
<b>Zinc</b>	<b>0.26</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 (0-1)**

**Lab Sample ID: 500-100874-11**

**Date Collected: 09/04/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 13:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:55	1
pH	8.80		0.200	0.200	SU			09/11/15 13:51	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

**Date Collected: 09/04/15 09:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 22:30	09/10/15 20:03	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/10/15 20:03	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/04/15 22:30	09/10/15 20:03	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/10/15 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

**Date Collected: 09/04/15 09:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
<b>Fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

**Date Collected: 09/04/15 09:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
<b>Pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	09/09/15 16:30	09/14/15 14:12	1
2-Fluorophenol	78		25 - 110	09/09/15 16:30	09/14/15 14:12	1
Nitrobenzene-d5	67		25 - 115	09/09/15 16:30	09/14/15 14:12	1
Phenol-d5	74		31 - 110	09/09/15 16:30	09/14/15 14:12	1
Terphenyl-d14	78		36 - 134	09/09/15 16:30	09/14/15 14:12	1
2,4,6-Tribromophenol	66		35 - 137	09/09/15 16:30	09/14/15 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.38</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Arsenic</b>	<b>10</b>		0.59	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Barium</b>	<b>52</b>		0.59	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.051	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Chromium</b>	<b>16</b>		0.59	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Cobalt</b>	<b>11</b>		0.29	0.066	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Copper</b>	<b>22</b>		0.59	0.13	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Iron</b>	<b>23000</b>		12	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Lead</b>	<b>35</b>		0.29	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Magnesium</b>	<b>30000</b>		5.9	2.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Calcium</b>	<b>51000</b>		12	3.8	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Manganese</b>	<b>520</b>		0.59	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Nickel</b>	<b>23</b>		0.59	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Thallium</b>	<b>1.3</b>		0.59	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Vanadium</b>	<b>21</b>		0.29	0.086	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Zinc</b>	<b>47</b>		1.2	0.37	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Potassium</b>	<b>2100</b>		29	4.8	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1
<b>Sodium</b>	<b>1900</b>		59	7.8	mg/Kg	☼	09/10/15 18:43	09/12/15 08:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Barium</b>	<b>0.64</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

Date Collected: 09/04/15 09:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>750</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:51	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Cobalt</b>	<b>0.066</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Iron</b>	<b>8.3</b>		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Lead</b>	<b>0.10</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Magnesium</b>	<b>310</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Manganese</b>	<b>16</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Nickel</b>	<b>0.059</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:51	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:51	1
<b>Zinc</b>	<b>0.18</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.039</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Barium</b>	<b>0.84</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Calcium</b>	<b>45</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Chromium</b>	<b>0.070</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Cobalt</b>	<b>0.044</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Iron</b>	<b>75</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Lead</b>	<b>0.72</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Nickel</b>	<b>0.089</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Potassium</b>	<b>13</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:58	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Vanadium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:58	1
<b>Zinc</b>	<b>0.35</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00029</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-12**

**Date Collected: 09/04/15 09:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.043</b>		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 13:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:55	1
pH	<b>8.85</b>		0.200	0.200	SU			09/11/15 13:57	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 22:30	09/10/15 20:27	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/10/15 20:27	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 22:30	09/10/15 20:27	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 22:30	09/10/15 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[b]fluoranthene</b>	<b>0.042</b>		0.038	0.0082	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Chrysene</b>	<b>0.029</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Fluoranthene</b>	<b>0.035</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0099	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

Date Collected: 09/04/15 10:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Phenanthrene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
<b>Pyrene</b>	<b>0.039</b>		0.038	0.0076	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/09/15 16:30	09/14/15 15:31	1
2-Fluorophenol	80		25 - 110	09/09/15 16:30	09/14/15 15:31	1
Nitrobenzene-d5	74		25 - 115	09/09/15 16:30	09/14/15 15:31	1
Phenol-d5	77		31 - 110	09/09/15 16:30	09/14/15 15:31	1
Terphenyl-d14	96		36 - 134	09/09/15 16:30	09/14/15 15:31	1
2,4,6-Tribromophenol	73		35 - 137	09/09/15 16:30	09/14/15 15:31	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.36</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Arsenic</b>	<b>9.9</b>		0.56	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Barium</b>	<b>42</b>		0.56	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Beryllium</b>	<b>0.54</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Chromium</b>	<b>15</b>		0.56	0.096	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Cobalt</b>	<b>9.2</b>		0.28	0.063	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Copper</b>	<b>24</b>		0.56	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Iron</b>	<b>20000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Lead</b>	<b>21</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Magnesium</b>	<b>35000</b>		5.6	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Calcium</b>	<b>75000</b>		110	36	mg/Kg	☼	09/10/15 18:43	09/14/15 13:39	10
<b>Manganese</b>	<b>430</b>		0.56	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Nickel</b>	<b>23</b>		0.56	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Thallium</b>	<b>1.2</b>		0.56	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Vanadium</b>	<b>19</b>		0.28	0.082	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Zinc</b>	<b>48</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Potassium</b>	<b>2400</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1
<b>Sodium</b>	<b>2500</b>		56	7.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Cadmium</b>	<b>0.0041</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>700</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Cobalt</b>	<b>0.059</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Iron</b>	<b>9.2</b>		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Magnesium</b>	<b>300</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Nickel</b>	<b>0.061</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Potassium</b>	<b>3.0</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:58	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:58	1
<b>Zinc</b>	<b>0.63</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.055</b>		0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Barium</b>	<b>0.76</b>		0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Calcium</b>	<b>45</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Chromium</b>	<b>0.098</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Cobalt</b>	<b>0.061</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Iron</b>	<b>100</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Lead</b>	<b>0.96</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Magnesium</b>	<b>25</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Potassium</b>	<b>19</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:05	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Vanadium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:05	1
<b>Zinc</b>	<b>0.57</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:47	1
<b>Thallium</b>	<b>0.0027</b>		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:31	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

**Client Sample ID: 2618-1-B01 (0-1)**

**Lab Sample ID: 500-100874-13**

**Date Collected: 09/04/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 13:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:56	1
pH	<b>8.76</b>		0.200	0.200	SU			09/11/15 14:03	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-4

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: MATT WEISS  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-100874

Chain of Custody Number: \_\_\_\_\_

Page 4 of 10

216, 312, 316, 214  
218, 311, 311, 214, 311, 310  
 Temperature of Cooler: \_\_\_\_\_

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

Client		Client Project #		Preservative		Parameter		VOCs		SVOCs		TOTAL		RLP		SPCP		PIA		
<u>TERRACON</u>		<u>1157108</u>										<u>24</u>		<u>24</u>		<u>24</u>				
Project Name		Lab Project #																		
Project Location/State		Lab PM																		
Sampler																				
<u>Hoffman Estates</u>		<u>T BOLLASIAA</u>																		
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix													
		Date	Time																	
<u>8</u>		<u>2618-1-B05 (0-1)</u>		<u>9/4/15</u>	<u>920</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>9</u>			<u>B04</u>		<u>930</u>															
<u>10</u>			<u>B03</u>		<u>940</u>															
<u>11</u>			<u>B02</u>		<u>950</u>															
<u>12</u>			<u>B02 Duplicate</u>		<u>955</u>															
<u>13</u>			<u>B01</u>		<u>1000</u>	<u>6</u>	<u>SO</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/4/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1600</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1855</u>	Received By: <u>[Signature]</u> Company: <u>TA-EPH</u> Date: <u>9/4/15</u> Time: <u>2100</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: SAME SEE PD.1

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-4

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Corner of Route IL 58 Road and Rohrssen Rd IDOT STA 425+15 to 427+30 (ISGS Site 2618-2)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.04508 Longitude: -88.22138  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04508 Longitude: -88.22138

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2618-2.  
See Exhibits 2 and 2A and Table 3 of the Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015

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

TestAmerica Lab Report No J100874.  
Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

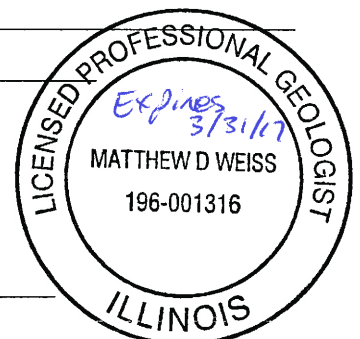
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss  
Printed Name:

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

12/16/15  
Date:



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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-2-B01 (0-1)
				CCDD	Sample Depth (feet)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		7.1
Barium	mg/kg	---	110	1500		55
Cadmium	mg/kg	---	0.6	5.2		<0.12
Chromium, total	mg/kg	---	16.2	21		14
Lead	mg/kg	---	36	107		13
Mercury	mg/kg	---	0.06	0.1		0.017
Selenium	mg/kg	---	0.48	1.3		<0.58
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		0.4
Beryllium	mg/kg	---	0.59	22		0.52
Calcium	mg/kg	---	9,300	---		88000
Cobalt	mg/kg	---	8.9	20		9.8
Copper	mg/kg	---	19.6	2900		54
Cyanide	mg/kg	---	0.51	---		<0.54
Iron	mg/kg	---	15,900	15000		17000
Magnesium	mg/kg	---	4,820	325000		39000
Manganese	mg/kg	---	636	630		460
Nickel	mg/kg	---	18	100		23
Potassium	mg/kg	---	1,268	---		2500
Sodium	mg/kg	---	130	---		1500
Thallium	mg/kg	---	0.32	2.6		1.3
Vanadium	mg/kg	---	25.2	550		18
Zinc	mg/kg	---	95	5100		41
pH			6.25	9		8.96
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.012
Barium,SPLP	mg/L	---	---	---		0.49
Beryllium,SPLP	mg/L	---	---	---		<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050
Calcium,SPLP	mg/L	---	---	---		80
Chromium,SPLP	mg/L	---	---	---		0.03
Cobalt,SPLP	mg/L	---	---	---		0.012
Copper,SPLP	mg/L	---	---	---		0.045
Iron,SPLP	mg/L	---	---	---		24
Lead,SPLP	mg/L	---	---	---		0.048
Magnesium,SPLP	mg/L	---	---	---		29
Manganese,SPLP	mg/L	---	---	---		0.35
Mercury,SPLP	mg/L	---	---	---		<0.00020
Nickel,SPLP	mg/L	---	---	---		0.033
Potassium,SPLP	mg/L	---	---	---		8.5
Selenium,SPLP	mg/L	---	---	---		<0.050
Silver,SPLP	mg/L	---	---	---		<0.025
Sodium,SPLP	mg/L	---	---	---		----
Thallium,SPLP	mg/L	---	---	---		<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.049
Zinc,SPLP	mg/L	---	---	---		0.24
Cyanide,SPLP	mg/L	---	---	---		----

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-2-B01 (0-1)
				CCDD	Sample Depth (feet)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.42
Cadmium, TCLP	mg/L	---	---	---		0.0026
Chromium, TCLP	mg/L	---	---	---		<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050
Silver, TCLP	mg/L	---	---	---		<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		1200
Cobalt, TCLP	mg/L	---	---	---		0.019
Copper, TCLP	mg/L	---	---	---		<0.025
Cyanide, TCLP	mg/L	---	---	---		----
Iron, TCLP	mg/L	---	---	---		<0.20
Magnesium, TCLP	mg/L	---	---	---		300
Manganese, TCLP	mg/L	---	---	---		3.7
Nickel, TCLP	mg/L	---	---	---		0.031
Potassium, TCLP	mg/L	---	---	---		1.9
Sodium, TCLP	mg/L	---	---	---		----
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		0.094



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100874-5

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/21/2015 2:21:09 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Job ID: 500-100874-5**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100874-5

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

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

#### GC/MS Semi VOA

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

#### Metals

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B01 (0-1)**

**Lab Sample ID: 500-100874-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.40	J	1.2	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	7.1		0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	55		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.52		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Chromium	14		0.58	0.099	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.8		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	54		0.58	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	17000		12	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	39000		5.8	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	88000		120	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	460		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.3		0.58	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA
Zinc	41		1.2	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2500		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	1500		58	7.6	mg/Kg	1		☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1200		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	300		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	3.7		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.094	J	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.012	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.49	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	80		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.030		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.045		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	24		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.048		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	29		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.033		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	8.5		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.049		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.24		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.017		0.017	0.0060	mg/Kg	1		☼	7471B	Total/NA
pH	8.96		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-2-B02 (0-1)**

**Lab Sample ID: 500-100874-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.64	J F1	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	8.0		0.56	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	39		0.56	0.10	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 (0-1) (Continued)**

**Lab Sample ID: 500-100874-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.70		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	25	F1	0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14	F1	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J F1	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000	F1	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	F1	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	930		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	320		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.31		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.020	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	66		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	38		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.030		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.31		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	9.02		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-2-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.45	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

## Client Sample ID: 2618-2-B02 DUP (0-1) (Continued)

## Lab Sample ID: 500-100874-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	78000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	940		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	340		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.078	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	61		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	9.6		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.020		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.6		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.026		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.20		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.84		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-2-B03 (0-1)

## Lab Sample ID: 500-100874-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	690		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B03 (0-1) (Continued)**

**Lab Sample ID: 500-100874-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Nickel	23		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.57	J	0.58	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1		☼	6010B	Total/NA
Zinc	59		1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	1300		29	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	2400		58	7.7	mg/Kg	1		☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	800		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.062		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	360		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.044		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.10		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.016	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.78		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0040		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	46		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.040		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.030		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.081		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	40		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.063		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.056		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	9.0		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.091		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.31		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.00032		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.024		0.018	0.0063	mg/Kg	1		☼	7471B	Total/NA
pH	9.13		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-14	2618-2-B01 (0-1)	Solid	09/04/15 10:05	09/04/15 21:00
500-100874-15	2618-2-B02 (0-1)	Solid	09/04/15 10:10	09/04/15 21:00
500-100874-16	2618-2-B02 DUP (0-1)	Solid	09/04/15 10:15	09/04/15 21:00
500-100874-17	2618-2-B03 (0-1)	Solid	09/04/15 10:20	09/04/15 21:00

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B01 (0-1)**

**Lab Sample ID: 500-100874-14**

**Date Collected: 09/04/15 10:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 22:30	09/10/15 20:51	1
Dibromofluoromethane	100		75 - 120	09/04/15 22:30	09/10/15 20:51	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/04/15 22:30	09/10/15 20:51	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B01 (0-1)**

**Lab Sample ID: 500-100874-14**

**Date Collected: 09/04/15 10:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B01 (0-1)**

**Lab Sample ID: 500-100874-14**

**Date Collected: 09/04/15 10:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	09/09/15 16:30	09/14/15 12:27	1
2-Fluorophenol	82		25 - 110	09/09/15 16:30	09/14/15 12:27	1
Nitrobenzene-d5	75		25 - 115	09/09/15 16:30	09/14/15 12:27	1
Phenol-d5	80		31 - 110	09/09/15 16:30	09/14/15 12:27	1
Terphenyl-d14	84		36 - 134	09/09/15 16:30	09/14/15 12:27	1
2,4,6-Tribromophenol	75		35 - 137	09/09/15 16:30	09/14/15 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.40</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Arsenic</b>	<b>7.1</b>		0.58	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Barium</b>	<b>55</b>		0.58	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Beryllium</b>	<b>0.52</b>		0.23	0.050	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Chromium</b>	<b>14</b>		0.58	0.099	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Cobalt</b>	<b>9.8</b>		0.29	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Copper</b>	<b>54</b>		0.58	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Iron</b>	<b>17000</b>		12	4.4	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Lead</b>	<b>13</b>		0.29	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Magnesium</b>	<b>39000</b>		5.8	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Calcium</b>	<b>88000</b>		120	37	mg/Kg	☼	09/10/15 18:43	09/14/15 13:43	10
<b>Manganese</b>	<b>460</b>		0.58	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Nickel</b>	<b>23</b>		0.58	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
Selenium	<0.58		0.58	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Thallium</b>	<b>1.3</b>		0.58	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Vanadium</b>	<b>18</b>		0.29	0.084	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Zinc</b>	<b>41</b>		1.2	0.36	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Potassium</b>	<b>2500</b>		29	4.7	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1
<b>Sodium</b>	<b>1500</b>		58	7.6	mg/Kg	☼	09/10/15 18:43	09/12/15 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 06:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 06:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B01 (0-1)**

**Lab Sample ID: 500-100874-14**

**Date Collected: 09/04/15 10:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1200</b>		25	5.0	mg/L		09/16/15 10:00	09/17/15 14:11	10
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 06:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Magnesium</b>	<b>300</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Manganese</b>	<b>3.7</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Nickel</b>	<b>0.031</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Potassium</b>	<b>1.9</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 06:04	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:04	1
<b>Zinc</b>	<b>0.094</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 06:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Calcium</b>	<b>80</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Chromium</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Copper</b>	<b>0.045</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Iron</b>	<b>24</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Lead</b>	<b>0.048</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Nickel</b>	<b>0.033</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Potassium</b>	<b>8.5</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:12	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Vanadium</b>	<b>0.049</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:12	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B01 (0-1)**

**Lab Sample ID: 500-100874-14**

Date Collected: 09/04/15 10:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 13:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:56	1
pH	8.96		0.200	0.200	SU			09/11/15 14:09	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 (0-1)**

**Lab Sample ID: 500-100874-15**

**Date Collected: 09/04/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 22:30	09/10/15 21:16	1
Dibromofluoromethane	100		75 - 120	09/04/15 22:30	09/10/15 21:16	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/04/15 22:30	09/10/15 21:16	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 22:30	09/10/15 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 (0-1)**

**Lab Sample ID: 500-100874-15**

**Date Collected: 09/04/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,4-Dinitrophenol	<0.75 *		0.75	0.65	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 (0-1)**

**Lab Sample ID: 500-100874-15**

Date Collected: 09/04/15 10:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/09/15 16:30	09/14/15 12:54	1
2-Fluorophenol	83		25 - 110	09/09/15 16:30	09/14/15 12:54	1
Nitrobenzene-d5	71		25 - 115	09/09/15 16:30	09/14/15 12:54	1
Phenol-d5	77		31 - 110	09/09/15 16:30	09/14/15 12:54	1
Terphenyl-d14	96		36 - 134	09/09/15 16:30	09/14/15 12:54	1
2,4,6-Tribromophenol	80		35 - 137	09/09/15 16:30	09/14/15 12:54	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.64</b>	<b>J F1</b>	1.1	0.23	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Arsenic</b>	<b>8.0</b>		0.56	0.26	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Barium</b>	<b>39</b>		0.56	0.10	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Beryllium</b>	<b>0.70</b>		0.23	0.049	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.033	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Chromium</b>	<b>16</b>		0.56	0.097	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Cobalt</b>	<b>15</b>		0.28	0.064	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Copper</b>	<b>25</b>	<b>F1</b>	0.56	0.12	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Iron</b>	<b>20000</b>		11	4.4	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Lead</b>	<b>14</b>	<b>F1</b>	0.28	0.14	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Magnesium</b>	<b>32000</b>		5.6	2.3	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Calcium</b>	<b>66000</b>		110	36	mg/Kg	☼	09/11/15 13:30	09/14/15 18:07	10
<b>Manganese</b>	<b>400</b>		0.56	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Nickel</b>	<b>30</b>		0.56	0.15	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Selenium</b>	<b>0.36</b>	<b>J F1</b>	0.56	0.28	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
Thallium	<0.56	F1	0.56	0.28	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Vanadium</b>	<b>20</b>		0.28	0.082	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Zinc</b>	<b>71</b>		1.1	0.36	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Potassium</b>	<b>2000</b>	<b>F1</b>	28	4.6	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1
<b>Sodium</b>	<b>1300</b>	<b>F1</b>	56	7.4	mg/Kg	☼	09/11/15 13:30	09/11/15 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 06:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 06:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 06:11	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 (0-1)**

**Lab Sample ID: 500-100874-15**

Date Collected: 09/04/15 10:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>930</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:11	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 06:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 06:11	1
<b>Magnesium</b>	<b>320</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:11	1
<b>Manganese</b>	<b>3.5</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
<b>Potassium</b>	<b>2.3</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 06:11	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:11	1
<b>Zinc</b>	<b>0.31</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 06:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.020</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Calcium</b>	<b>66</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Chromium</b>	<b>0.041</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Copper</b>	<b>0.064</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Iron</b>	<b>38</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Lead</b>	<b>0.030</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Manganese</b>	<b>0.37</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Nickel</b>	<b>0.041</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Potassium</b>	<b>11</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:19	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:19	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Vanadium</b>	<b>0.063</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:19	1
<b>Zinc</b>	<b>0.31</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 (0-1)**

**Lab Sample ID: 500-100874-15**

**Date Collected: 09/04/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 13:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:57	1
pH	9.02		0.200	0.200	SU			09/11/15 14:15	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-16**

**Date Collected: 09/04/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Bromomethane	<0.0045	*	0.0045	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/04/15 22:30	09/10/15 21:40	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/10/15 21:40	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/04/15 22:30	09/10/15 21:40	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-16**

**Date Collected: 09/04/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Benzo[g,h,i]perylene	<0.038	F1	0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Dibenz(a,h)anthracene	<0.038	F1 F2	0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,4-Dimethylphenol	<0.38	F1 F2	0.38	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,4-Dinitrophenol	<0.77	* F1	0.77	0.68	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Hexachlorocyclopentadiene	<0.77	F2	0.77	0.22	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Indeno[1,2,3-cd]pyrene	<0.038	F1 F2	0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-16**

Date Collected: 09/04/15 10:15

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Pentachlorophenol	<0.77	F1	0.77	0.62	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/09/15 16:46	09/14/15 13:29	1
2-Fluorophenol	87		25 - 110	09/09/15 16:46	09/14/15 13:29	1
Nitrobenzene-d5	74		25 - 115	09/09/15 16:46	09/14/15 13:29	1
Phenol-d5	80		31 - 110	09/09/15 16:46	09/14/15 13:29	1
Terphenyl-d14	86		36 - 134	09/09/15 16:46	09/14/15 13:29	1
2,4,6-Tribromophenol	85		35 - 137	09/09/15 16:46	09/14/15 13:29	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.45</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Arsenic</b>	<b>9.4</b>		0.58	0.27	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Barium</b>	<b>35</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.050	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Cadmium</b>	<b>0.24</b>		0.12	0.033	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Chromium</b>	<b>15</b>		0.58	0.099	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Iron</b>	<b>19000</b>		12	4.4	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Lead</b>	<b>13</b>		0.29	0.14	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Magnesium</b>	<b>34000</b>		5.8	2.3	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Calcium</b>	<b>78000</b>		120	37	mg/Kg	☼	09/11/15 13:30	09/14/15 18:27	10
<b>Manganese</b>	<b>420</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Nickel</b>	<b>28</b>		0.58	0.16	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Vanadium</b>	<b>18</b>		0.29	0.084	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Zinc</b>	<b>65</b>		1.2	0.37	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Potassium</b>	<b>2100</b>		29	4.7	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1
<b>Sodium</b>	<b>1100</b>		58	7.6	mg/Kg	☼	09/11/15 13:30	09/11/15 23:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 06:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 06:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 06:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-16**

**Date Collected: 09/04/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>940</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
<b>Cobalt</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 06:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 06:18	1
<b>Magnesium</b>	<b>340</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:18	1
<b>Manganese</b>	<b>3.8</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 06:18	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:18	1
<b>Zinc</b>	<b>0.078</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 06:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Calcium</b>	<b>61</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Iron</b>	<b>9.6</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Magnesium</b>	<b>21</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Potassium</b>	<b>4.6</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:25	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Vanadium</b>	<b>0.026</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:25	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B02 DUP (0-1)**

**Lab Sample ID: 500-100874-16**

Date Collected: 09/04/15 10:15

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 13:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:57	1
pH	8.84		0.200	0.200	SU			09/11/15 14:21	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B03 (0-1)**

**Lab Sample ID: 500-100874-17**

**Date Collected: 09/04/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/11/15 12:33	1
Dibromofluoromethane	97		75 - 120	09/04/15 22:30	09/11/15 12:33	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/04/15 22:30	09/11/15 12:33	1
Toluene-d8 (Surr)	95		75 - 122	09/04/15 22:30	09/11/15 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B03 (0-1)**

**Lab Sample ID: 500-100874-17**

**Date Collected: 09/04/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0081	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,4-Dinitrophenol	<0.76 *		0.76	0.66	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B03 (0-1)**

**Lab Sample ID: 500-100874-17**

**Date Collected: 09/04/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	09/09/15 16:46	09/14/15 14:59	1
2-Fluorophenol	78		25 - 110	09/09/15 16:46	09/14/15 14:59	1
Nitrobenzene-d5	69		25 - 115	09/09/15 16:46	09/14/15 14:59	1
Phenol-d5	75		31 - 110	09/09/15 16:46	09/14/15 14:59	1
Terphenyl-d14	84		36 - 134	09/09/15 16:46	09/14/15 14:59	1
2,4,6-Tribromophenol	88		35 - 137	09/09/15 16:46	09/14/15 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Arsenic</b>	<b>7.3</b>		0.58	0.27	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Barium</b>	<b>72</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Beryllium</b>	<b>0.66</b>		0.23	0.050	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Cadmium</b>	<b>0.19</b>		0.12	0.034	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Chromium</b>	<b>15</b>		0.58	0.10	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Copper</b>	<b>16</b>		0.58	0.13	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Lead</b>	<b>15</b>		0.29	0.15	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Magnesium</b>	<b>14000</b>		5.8	2.4	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Calcium</b>	<b>20000</b>		12	3.8	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Manganese</b>	<b>690</b>		0.58	0.12	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Nickel</b>	<b>23</b>		0.58	0.16	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Selenium</b>	<b>0.57 J</b>		0.58	0.29	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Vanadium</b>	<b>23</b>		0.29	0.085	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Zinc</b>	<b>59</b>		1.2	0.37	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Potassium</b>	<b>1300</b>		29	4.8	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1
<b>Sodium</b>	<b>2400</b>		58	7.7	mg/Kg	☼	09/11/15 13:30	09/11/15 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 06:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Cadmium</b>	<b>0.0024 J</b>		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 06:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B03 (0-1)**

**Lab Sample ID: 500-100874-17**

**Date Collected: 09/04/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>800</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:25	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Cobalt</b>	<b>0.062</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 06:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Magnesium</b>	<b>360</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Manganese</b>	<b>13</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 06:25	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:25	1
<b>Zinc</b>	<b>0.10</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 06:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.016</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Barium</b>	<b>0.78</b>		0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Beryllium</b>	<b>0.0040</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Calcium</b>	<b>46</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Chromium</b>	<b>0.040</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Copper</b>	<b>0.081</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Iron</b>	<b>40</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Lead</b>	<b>0.063</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Magnesium</b>	<b>16</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Nickel</b>	<b>0.056</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Potassium</b>	<b>9.0</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:32	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Vanadium</b>	<b>0.091</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:32	1
<b>Zinc</b>	<b>0.31</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00032</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

**Client Sample ID: 2618-2-B03 (0-1)**

**Lab Sample ID: 500-100874-17**

Date Collected: 09/04/15 10:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 13:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/14/15 14:50	09/14/15 17:47	1
pH	9.13		0.200	0.200	SU			09/11/15 14:27	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-5

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.6211

Report To (optional) MATT WEISS  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-100874  
 Chain of Custody Number: \_\_\_\_\_  
 Page 5 of 10  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Parameter						Comments		
Project Location/State		Lab PM		Parameter								
Sampler				Parameter								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
14		2618-2-B01 (O-1)	9/4/15	1005	6	SO	X	X	X	X	X	X
15		2618-2-B02 (O-1)		1010								
16		2618-2-B02 DUP (O-1)		1015								
17		2618-2-B03 (O-1)		1020								

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>[Signature]</u> Company <u>TEPPACON</u> Date <u>9/4/15</u> Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>9/4/15</u> Time <u>1600</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>9/4/15</u> Time <u>1855</u>	Received By <u>[Signature]</u> Company <u>TA-ENR</u> Date <u>9/4/15</u> Time <u>2100</u>
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____

Lab Courier: [Signature]  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments  
SAME SEE PG. 1

Lab Comments:  
 \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-5

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Corner of Route IL 58 Road and Rohrssen Rd IDOT STA 431+75 to 434+20 (ISGS Site 2618-3)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.04493 Longitude: -88.21736

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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



Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04493 Longitude: -88.21736

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2618-3. See Exhibits 2 and 2B and Table 5 of the Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015.

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

TestAmerica Lab Report No J100874.  
Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss

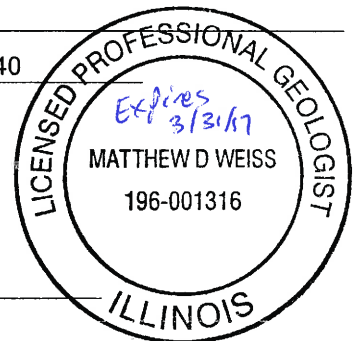
Printed Name:

[Signature]

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

12/14/17

Date:



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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-3-B01 (0-1)	2618-3-B01 DUP (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		9.4	6.9
Barium	mg/kg	---	110	1500		52	55
Cadmium	mg/kg	---	0.6	5.2		0.22	0.26
Chromium, total	mg/kg	---	16.2	21		15	13
Lead	mg/kg	---	36	107		15	12
Mercury	mg/kg	---	0.06	0.1		0.022	0.024
Selenium	mg/kg	---	0.48	1.3		0.4	<0.52
Silver	mg/kg	---	0.55	4.4		<0.28	<0.26
Antimony	mg/kg	---	4.0	5		0.45	0.47
Beryllium	mg/kg	---	0.59	22		0.73	0.59
Calcium	mg/kg	---	9,300	---		65000	89000
Cobalt	mg/kg	---	8.9	20		13	11
Copper	mg/kg	---	19.6	2900		25	21
Cyanide	mg/kg	---	0.51	---		<0.58	<0.56
Iron	mg/kg	---	15,900	15000		21000	17000
Magnesium	mg/kg	---	4,820	325000		31000	35000
Manganese	mg/kg	---	636	630		520	400
Nickel	mg/kg	---	18	100		33	26
Potassium	mg/kg	---	1,268	---		2000	1700
Sodium	mg/kg	---	130	---		2200	2000
Thallium	mg/kg	---	0.32	2.6		<0.56	<0.52
Vanadium	mg/kg	---	25.2	550		20	16
Zinc	mg/kg	---	95	5100		71	59
pH			6.25	9		8.63	8.77
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.08	0.011
Barium,SPLP	mg/L	---	---	---		0.68	0.44
Beryllium,SPLP	mg/L	---	---	---		0.0071	<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		34	37
Chromium,SPLP	mg/L	---	---	---		0.15	0.018
Cobalt,SPLP	mg/L	---	---	---		0.051	0.011
Copper,SPLP	mg/L	---	---	---		0.19	0.035
Iron,SPLP	mg/L	---	---	---		170	15
Lead,SPLP	mg/L	---	---	---		0.084	0.031
Magnesium,SPLP	mg/L	---	---	---		34	12
Manganese,SPLP	mg/L	---	---	---		1.3	0.61
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.18	0.028
Potassium,SPLP	mg/L	---	---	---		30	4.9
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		----	----
Thallium,SPLP	mg/L	---	---	---		0.0049	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.21	0.031
Zinc,SPLP	mg/L	---	---	---		0.7	0.2
Cyanide,SPLP	mg/L	---	---	---		----	----

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-3-B01 (0-1)	2618-3-B01 DUP (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.39	0.41
Cadmium, TCLP	mg/L	---	---	---		<0.0050	0.0022
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		790	860
Cobalt, TCLP	mg/L	---	---	---		0.015	0.016
Copper, TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide, TCLP	mg/L	---	---	---		----	----
Iron, TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium, TCLP	mg/L	---	---	---		390	340
Manganese, TCLP	mg/L	---	---	---		5.6	4.8
Nickel, TCLP	mg/L	---	---	---		0.036	0.033
Potassium, TCLP	mg/L	---	---	---		2	2
Sodium, TCLP	mg/L	---	---	---		----	----
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.12	0.2

# TestAmerica

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## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100874-6

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/21/2015 2:13:42 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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

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

1

2

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Job ID: 500-100874-6**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100874-6

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

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

#### GC/MS Semi VOA

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with 500-303599 had 1 analyte outside control limits: 2,4-Dinitrophenol; therefore, corrective action was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: 2618-3-B02 (0-1) (500-100874-20). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

#### Metals

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 (0-1)**

**Lab Sample ID: 500-100874-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.45	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.4		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	520		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	790		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	390		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.080		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.68		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0071		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	170		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.084		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.70		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0049		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.022		0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-3-B01 DUP (0-1)**

**Lab Sample ID: 500-100874-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 DUP (0-1) (Continued)**

**Lab Sample ID: 500-100874-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000		100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	860		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	340		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	15		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.031		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.20		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.024		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.77		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-3-B02 (0-1)**

**Lab Sample ID: 500-100874-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.65	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	13		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.22		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B02 (0-1) (Continued)**

**Lab Sample ID: 500-100874-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.18		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.8		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.4		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	8600		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	51000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.4		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.37	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	600		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	60		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2	F1	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.090	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Iron	1.5		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	6.6		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.24		0.10	0.020	mg/L	1		6010B	SPLP East
pH	9.29		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-18	2618-3-B01 (0-1)	Solid	09/04/15 10:30	09/04/15 21:00
500-100874-19	2618-3-B01 DUP (0-1)	Solid	09/04/15 10:35	09/04/15 21:00
500-100874-20	2618-3-B02 (0-1)	Solid	09/04/15 10:40	09/04/15 21:00

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 (0-1)**

**Lab Sample ID: 500-100874-18**

**Date Collected: 09/04/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/04/15 22:30	09/11/15 12:57	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/11/15 12:57	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/04/15 22:30	09/11/15 12:57	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/11/15 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 (0-1)**

**Lab Sample ID: 500-100874-18**

**Date Collected: 09/04/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,4-Dinitrophenol	<0.76 *		0.76	0.67	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 (0-1)**

**Lab Sample ID: 500-100874-18**

**Date Collected: 09/04/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	09/09/15 16:46	09/14/15 15:28	1
2-Fluorophenol	71		25 - 110	09/09/15 16:46	09/14/15 15:28	1
Nitrobenzene-d5	65		25 - 115	09/09/15 16:46	09/14/15 15:28	1
Phenol-d5	69		31 - 110	09/09/15 16:46	09/14/15 15:28	1
Terphenyl-d14	72		36 - 134	09/09/15 16:46	09/14/15 15:28	1
2,4,6-Tribromophenol	77		35 - 137	09/09/15 16:46	09/14/15 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.45</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Arsenic</b>	<b>9.4</b>		0.56	0.26	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Barium</b>	<b>52</b>		0.56	0.10	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Beryllium</b>	<b>0.73</b>		0.22	0.049	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Cadmium</b>	<b>0.22</b>		0.11	0.032	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Chromium</b>	<b>15</b>		0.56	0.096	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Cobalt</b>	<b>13</b>		0.28	0.063	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Copper</b>	<b>25</b>		0.56	0.12	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Iron</b>	<b>21000</b>		11	4.3	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Lead</b>	<b>15</b>		0.28	0.14	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Magnesium</b>	<b>31000</b>		5.6	2.3	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Calcium</b>	<b>65000</b>		110	36	mg/Kg	☼	09/11/15 13:30	09/14/15 18:31	10
<b>Manganese</b>	<b>520</b>		0.56	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Nickel</b>	<b>33</b>		0.56	0.15	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Vanadium</b>	<b>20</b>		0.28	0.082	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Zinc</b>	<b>71</b>		1.1	0.36	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Potassium</b>	<b>2000</b>		28	4.6	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1
<b>Sodium</b>	<b>2200</b>		56	7.4	mg/Kg	☼	09/11/15 13:30	09/11/15 23:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 06:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 06:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 06:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 (0-1)**

**Lab Sample ID: 500-100874-18**

**Date Collected: 09/04/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>790</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:48	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 06:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 06:48	1
<b>Magnesium</b>	<b>390</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:48	1
<b>Manganese</b>	<b>5.6</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
<b>Potassium</b>	<b>2.0</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 06:48	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:48	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 06:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.080</b>		0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Barium</b>	<b>0.68</b>		0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Beryllium</b>	<b>0.0071</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Calcium</b>	<b>34</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Cobalt</b>	<b>0.051</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Lead</b>	<b>0.084</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Magnesium</b>	<b>34</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Potassium</b>	<b>30</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:39	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:39	1
<b>Zinc</b>	<b>0.70</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:54	1
<b>Thallium</b>	<b>0.0049</b>		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 (0-1)**

**Lab Sample ID: 500-100874-18**

**Date Collected: 09/04/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:36	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0068	mg/Kg	☼	09/11/15 17:00	09/14/15 13:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/14/15 14:50	09/14/15 17:48	1
pH	8.63		0.200	0.200	SU			09/11/15 14:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 DUP (0-1)**

**Lab Sample ID: 500-100874-19**

**Date Collected: 09/04/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/04/15 22:30	09/11/15 13:21	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 13:21	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/04/15 22:30	09/11/15 13:21	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/11/15 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 DUP (0-1)**

**Lab Sample ID: 500-100874-19**

**Date Collected: 09/04/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2-Methylnaphthalene	<0.035		0.035	0.0066	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 DUP (0-1)**

**Lab Sample ID: 500-100874-19**

**Date Collected: 09/04/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	09/09/15 16:46	09/14/15 15:58	1
2-Fluorophenol	63		25 - 110	09/09/15 16:46	09/14/15 15:58	1
Nitrobenzene-d5	57		25 - 115	09/09/15 16:46	09/14/15 15:58	1
Phenol-d5	66		31 - 110	09/09/15 16:46	09/14/15 15:58	1
Terphenyl-d14	70		36 - 134	09/09/15 16:46	09/14/15 15:58	1
2,4,6-Tribromophenol	79		35 - 137	09/09/15 16:46	09/14/15 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.0	0.22	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Arsenic	6.9		0.52	0.24	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Barium	55		0.52	0.095	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Beryllium	0.59		0.21	0.045	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Cadmium	0.26		0.10	0.030	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Chromium	13		0.52	0.089	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Cobalt	11		0.26	0.059	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Copper	21		0.52	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Iron	17000		10	4.0	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Lead	12		0.26	0.13	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Magnesium	35000		5.2	2.1	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Calcium	89000		100	33	mg/Kg	☼	09/11/15 13:30	09/14/15 18:35	10
Manganese	400		0.52	0.10	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Nickel	26		0.52	0.14	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Vanadium	16		0.26	0.076	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Zinc	59		1.0	0.33	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Potassium	1700		26	4.2	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1
Sodium	2000		52	6.8	mg/Kg	☼	09/11/15 13:30	09/11/15 23:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
Barium	0.41	J	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 06:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 06:54	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 06:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 DUP (0-1)**

**Lab Sample ID: 500-100874-19**

**Date Collected: 09/04/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>860</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:54	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 06:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 06:54	1
<b>Magnesium</b>	<b>340</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:54	1
<b>Manganese</b>	<b>4.8</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
<b>Nickel</b>	<b>0.033</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
<b>Potassium</b>	<b>2.0</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 06:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 06:54	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 06:54	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Calcium</b>	<b>37</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Chromium</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Copper</b>	<b>0.035</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Iron</b>	<b>15</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Lead</b>	<b>0.031</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Manganese</b>	<b>0.61</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Potassium</b>	<b>4.9</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:46	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:46	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Vanadium</b>	<b>0.031</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:46	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B01 DUP (0-1)**

**Lab Sample ID: 500-100874-19**

**Date Collected: 09/04/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0059	mg/Kg	☼	09/11/15 17:00	09/14/15 13:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/14/15 14:50	09/14/15 17:48	1
pH	8.77		0.200	0.200	SU			09/11/15 14:39	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B02 (0-1)**

**Lab Sample ID: 500-100874-20**

**Date Collected: 09/04/15 10:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 92.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 22:30	09/11/15 13:45	1
Dibromofluoromethane	93		75 - 120	09/04/15 22:30	09/11/15 13:45	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/04/15 22:30	09/11/15 13:45	1
Toluene-d8 (Surr)	93		75 - 122	09/04/15 22:30	09/11/15 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B02 (0-1)**

**Lab Sample ID: 500-100874-20**

**Date Collected: 09/04/15 10:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 92.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Chrysene	<0.034		0.034	0.0093	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.27	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,4-Dinitrophenol	<0.69	*	0.69	0.60	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0088	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B02 (0-1)**

**Lab Sample ID: 500-100874-20**

**Date Collected: 09/04/15 10:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 92.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.69		0.69	0.32	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Phenol	<0.17		0.17	0.076	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
Pyrene	<0.034		0.034	0.0068	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	09/09/15 16:46	09/15/15 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	09/09/15 16:46	09/15/15 22:06	1
2-Fluorophenol	91		25 - 110	09/09/15 16:46	09/15/15 22:06	1
Nitrobenzene-d5	83		25 - 115	09/09/15 16:46	09/15/15 22:06	1
Phenol-d5	86		31 - 110	09/09/15 16:46	09/15/15 22:06	1
Terphenyl-d14	165	X	36 - 134	09/09/15 16:46	09/15/15 22:06	1
2,4,6-Tribromophenol	79		35 - 137	09/09/15 16:46	09/15/15 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.65</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Arsenic</b>	<b>3.9</b>		0.54	0.25	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Barium</b>	<b>13</b>		0.54	0.098	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Beryllium</b>	<b>0.22</b>		0.22	0.047	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Cadmium</b>	<b>0.18</b>		0.11	0.031	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Chromium</b>	<b>5.8</b>		0.54	0.093	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Cobalt</b>	<b>4.4</b>		0.27	0.061	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Copper</b>	<b>11</b>		0.54	0.12	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Iron</b>	<b>8600</b>		11	4.1	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Lead</b>	<b>16</b>		0.27	0.13	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Magnesium</b>	<b>51000</b>		5.4	2.2	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Calcium</b>	<b>110000</b>		110	35	mg/Kg	☼	09/11/15 13:30	09/14/15 18:39	10
<b>Manganese</b>	<b>310</b>		0.54	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Nickel</b>	<b>9.4</b>		0.54	0.15	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Selenium</b>	<b>0.37</b>	<b>J</b>	0.54	0.27	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Vanadium</b>	<b>13</b>		0.27	0.079	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Zinc</b>	<b>32</b>		1.1	0.34	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Potassium</b>	<b>600</b>		27	4.4	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1
<b>Sodium</b>	<b>580</b>		54	7.1	mg/Kg	☼	09/11/15 13:30	09/11/15 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 07:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 07:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 07:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B02 (0-1)**

**Lab Sample ID: 500-100874-20**

**Date Collected: 09/04/15 10:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 92.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>380</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 07:01	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 07:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 07:01	1
<b>Magnesium</b>	<b>60</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 07:01	1
<b>Manganese</b>	<b>0.49</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
<b>Potassium</b>	<b>3.2</b>	<b>F1</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 07:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 07:01	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 07:01	1
<b>Zinc</b>	<b>0.090</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 07:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/16/15 00:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/16/15 00:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/16/15 00:52	1
<b>Calcium</b>	<b>22</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
<b>Iron</b>	<b>1.5</b>		0.20	0.20	mg/L		09/14/15 19:30	09/16/15 00:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 19:30	09/16/15 00:52	1
<b>Magnesium</b>	<b>6.6</b>		2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:52	1
<b>Manganese</b>	<b>0.056</b>		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
<b>Potassium</b>	<b>1.8</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 19:30	09/16/15 00:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/16/15 00:52	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/16/15 00:52	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/14/15 19:30	09/16/15 00:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:48	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

**Client Sample ID: 2618-3-B02 (0-1)**

**Lab Sample ID: 500-100874-20**

**Date Collected: 09/04/15 10:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 92.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 13:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	09/14/15 14:50	09/14/15 17:54	1
pH	<b>9.29</b>		0.200	0.200	SU			09/11/15 14:45	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-6

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: MATWEISS  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-100874  
 Chain of Custody Number: \_\_\_\_\_  
 Page 6 of 10  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
<u>TERRACON</u>		<u>1157108</u>				<u>VOCS</u> <u>SVOCS</u>		<u>TOTAL</u> <u>24</u>		<u>SPED</u> <u>24</u> <u>PA</u>		
Project Name		Lab Project #										
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Matrix					
			Date	Time			VOCS	SVOCS	TOTAL	TAP	SPED	PA
<u>18</u>		<u>2618-3-B01 (O-1)</u>	<u>9/4/15</u>	<u>1030</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>19</u>		<u>2618-3-B01 (POP (O-1))</u>	<u>9/4/15</u>	<u>1035</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>20</u>		<u>2618-3-B02 (O-1)</u>	<u>9/4/15</u>	<u>1040</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>

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

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By: <u>[Signature]</u>	Company: <u>TERRACON</u>	Date: <u>9/4/15</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>1600</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>1835</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CBE</u>	Date: <u>9/4/15</u>	Time: <u>2100</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: SAME SEE PD. 1

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-6

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Corner of Route IL 58 Road and Rohrssen Rd IDOT STA 436+50 to 441+00 (ISGS Site 2618-4)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.04490 Longitude: -88.21681  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04490 Longitude: -88.21681

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B01 and B02 were sampled adjacent to ISGS Site No 2618-4. See Exhibits 2 and 2B and Table 7 of the Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015.

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

TestAmerica Lab Report No J100874.  
Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

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

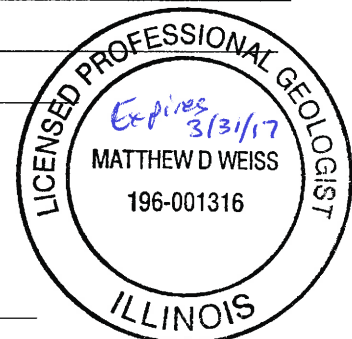
**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

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

Matt Weiss  
 Printed Name:

Matt

12/16/15



Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date:

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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-4-B01 (0-0.5)	2618-4-B02 (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)	(0-0.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		9.9	6.3
Barium	mg/kg	---	110	1500		110	29
Cadmium	mg/kg	---	0.6	5.2		<0.11	0.064
Chromium, total	mg/kg	---	16.2	21		19	11
Lead	mg/kg	---	36	107		14	8.2
Mercury	mg/kg	---	0.06	0.1		0.022	0.02
Selenium	mg/kg	---	0.48	1.3		<0.55	<0.56
Silver	mg/kg	---	0.55	4.4		<0.28	<0.28
Antimony	mg/kg	---	4.0	5		0.3	<1.1
Beryllium	mg/kg	---	0.59	22		0.76	0.41
Calcium	mg/kg	---	9,300	---		5500	100000
Cobalt	mg/kg	---	8.9	20		11	6.8
Copper	mg/kg	---	19.6	2900		25	15
Cyanide	mg/kg	---	0.51	---		<0.57	<0.56
Iron	mg/kg	---	15,900	15000		25000	14000
Magnesium	mg/kg	---	4,820	325000		6000	49000
Manganese	mg/kg	---	636	630		620	410
Nickel	mg/kg	---	18	100		30	16
Potassium	mg/kg	---	1,268	---		2000	1700
Sodium	mg/kg	---	130	---		2900	2400
Thallium	mg/kg	---	0.32	2.6		1.7	0.88
Vanadium	mg/kg	---	25.2	550		24	17
Zinc	mg/kg	---	95	5100		57	33
pH			6.25	9		8.65	8.94
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.037	<0.050
Barium,SPLP	mg/L	---	---	---		0.8	0.33
Beryllium,SPLP	mg/L	---	---	---		0.005	<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		44	32
Chromium,SPLP	mg/L	---	---	---		0.079	0.021
Cobalt,SPLP	mg/L	---	---	---		0.027	<0.025
Copper,SPLP	mg/L	---	---	---		0.1	0.029
Iron,SPLP	mg/L	---	---	---		83	16
Lead,SPLP	mg/L	---	---	---		0.051	0.022
Magnesium,SPLP	mg/L	---	---	---		22	12
Manganese,SPLP	mg/L	---	---	---		0.93	0.34
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.089	0.022
Potassium,SPLP	mg/L	---	---	---		15	5.6
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		---	---
Thallium,SPLP	mg/L	---	---	---		0.0022	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.12	0.03
Zinc,SPLP	mg/L	---	---	---		0.35	0.22
Cyanide,SPLP	mg/L	---	---	---		---	---

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-4-B01 (0-0.5)	2618-4-B02 (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)	(0-0.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.43	0.23
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		320	360
Cobalt, TCLP	mg/L	---	---	---		<0.025	<0.025
Copper, TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide, TCLP	mg/L	---	---	---		----	----
Iron, TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium, TCLP	mg/L	---	---	---		63	65
Manganese, TCLP	mg/L	---	---	---		0.17	0.39
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		2	1.6
Sodium, TCLP	mg/L	---	---	---		----	----
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.034	<0.10



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100874-1

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/21/2015 2:18:59 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Job ID: 500-100874-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100874-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

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

#### GC/MS Semi VOA

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

#### Metals

Method(s) 6010B: A MSA was performed for 100874-1 for Barium.

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B01 (0-0.5)**

**Lab Sample ID: 500-100874-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.30	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	5500		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	620		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.7		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2900		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.034	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.037	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.80	F1	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0050		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	83		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.051		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	22	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.93	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.089		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.35		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.022		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.65		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-4-B02 (0-0.5)**

**Lab Sample ID: 500-100874-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.064	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B02 (0-0.5) (Continued)**

**Lab Sample ID: 500-100874-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	11		0.56	0.096	mg/Kg	1		☼	6010B	Total/NA
Cobalt	6.8		0.28	0.063	mg/Kg	1		☼	6010B	Total/NA
Copper	15		0.56	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	14000		11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	8.2		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	49000		5.6	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	100000		110	36	mg/Kg	10		☼	6010B	Total/NA
Manganese	410		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	16		0.56	0.15	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.88		0.56	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1		☼	6010B	Total/NA
Zinc	33		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	1700		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	2400		56	7.4	mg/Kg	1		☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	360		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1			6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.021	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.029		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	16		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.022		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.34		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.022	J	0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	5.6		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.030		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.22		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.020		0.016	0.0057	mg/Kg	1		☼	7471B	Total/NA
pH	8.94		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-1	2618-4-B01 (0-0.5)	Solid	09/04/15 10:50	09/04/15 21:00
500-100874-2	2618-4-B02 (0-0.5)	Solid	09/04/15 10:55	09/04/15 21:00

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B01 (0-0.5)**

**Lab Sample ID: 500-100874-1**

**Date Collected: 09/04/15 10:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Bromomethane	<0.0045	*	0.0045	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/04/15 22:30	09/10/15 15:38	1
Dibromofluoromethane	96		75 - 120	09/04/15 22:30	09/10/15 15:38	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/15 22:30	09/10/15 15:38	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B01 (0-0.5)**

**Lab Sample ID: 500-100874-1**

**Date Collected: 09/04/15 10:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Benzo[g,h,i]perylene	<0.039	F1	0.039	0.013	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B01 (0-0.5)**

**Lab Sample ID: 500-100874-1**

**Date Collected: 09/04/15 10:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Pentachlorophenol	<0.78	F1	0.78	0.62	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	09/10/15 07:29	09/14/15 20:51	1
2-Fluorophenol	67		25 - 110	09/10/15 07:29	09/14/15 20:51	1
Nitrobenzene-d5	86		25 - 115	09/10/15 07:29	09/14/15 20:51	1
Phenol-d5	79		31 - 110	09/10/15 07:29	09/14/15 20:51	1
Terphenyl-d14	101		36 - 134	09/10/15 07:29	09/14/15 20:51	1
2,4,6-Tribromophenol	53		35 - 137	09/10/15 07:29	09/14/15 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.30</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Arsenic</b>	<b>9.9</b>		0.55	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Barium</b>	<b>110</b>		0.55	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Beryllium</b>	<b>0.76</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Chromium</b>	<b>19</b>		0.55	0.095	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Cobalt</b>	<b>11</b>		0.28	0.062	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Copper</b>	<b>25</b>		0.55	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Iron</b>	<b>25000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Magnesium</b>	<b>6000</b>		5.5	2.2	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Calcium</b>	<b>5500</b>		11	3.6	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Manganese</b>	<b>620</b>		0.55	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Nickel</b>	<b>30</b>		0.55	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Thallium</b>	<b>1.7</b>		0.55	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Vanadium</b>	<b>24</b>		0.28	0.081	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Zinc</b>	<b>57</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Potassium</b>	<b>2000</b>		28	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 07:04	1
<b>Sodium</b>	<b>2900</b>		55	7.3	mg/Kg	☼	09/10/15 18:43	09/14/15 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 04:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 04:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 04:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B01 (0-0.5)**

**Lab Sample ID: 500-100874-1**

**Date Collected: 09/04/15 10:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>320</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 04:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 04:20	1
<b>Magnesium</b>	<b>63</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:20	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
<b>Potassium</b>	<b>2.0</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 04:20	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:20	1
<b>Zinc</b>	<b>0.034</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:00	09/17/15 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.037</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Barium</b>	<b>0.80</b>	<b>F1</b>	0.50	0.050	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Beryllium</b>	<b>0.0050</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 21:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Calcium</b>	<b>44</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Chromium</b>	<b>0.079</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Copper</b>	<b>0.10</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Iron</b>	<b>83</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Lead</b>	<b>0.051</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Magnesium</b>	<b>22</b>	<b>F1</b>	2.5	0.50	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Manganese</b>	<b>0.93</b>	<b>F1</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Nickel</b>	<b>0.089</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Potassium</b>	<b>15</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 21:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 21:52	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 21:52	1
<b>Zinc</b>	<b>0.35</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:32	1
<b>Thallium</b>	<b>0.0022</b>		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B01 (0-0.5)**

**Lab Sample ID: 500-100874-1**

Date Collected: 09/04/15 10:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 08:51	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 12:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:51	1
pH	8.65		0.200	0.200	SU			09/11/15 12:45	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B02 (0-0.5)**

**Lab Sample ID: 500-100874-2**

Date Collected: 09/04/15 10:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/04/15 22:30	09/10/15 16:02	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/10/15 16:02	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/15 22:30	09/10/15 16:02	1
Toluene-d8 (Surr)	93		75 - 122	09/04/15 22:30	09/10/15 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B02 (0-0.5)**

**Lab Sample ID: 500-100874-2**

**Date Collected: 09/04/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B02 (0-0.5)**

**Lab Sample ID: 500-100874-2**

Date Collected: 09/04/15 10:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/10/15 07:29	09/14/15 21:18	1
2-Fluorophenol	74		25 - 110	09/10/15 07:29	09/14/15 21:18	1
Nitrobenzene-d5	89		25 - 115	09/10/15 07:29	09/14/15 21:18	1
Phenol-d5	78		31 - 110	09/10/15 07:29	09/14/15 21:18	1
Terphenyl-d14	98		36 - 134	09/10/15 07:29	09/14/15 21:18	1
2,4,6-Tribromophenol	36		35 - 137	09/10/15 07:29	09/14/15 21:18	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Arsenic</b>	<b>6.3</b>		0.56	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Barium</b>	<b>29</b>		0.56	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Beryllium</b>	<b>0.41</b>		0.22	0.048	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Cadmium</b>	<b>0.064</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Chromium</b>	<b>11</b>		0.56	0.096	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Cobalt</b>	<b>6.8</b>		0.28	0.063	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Copper</b>	<b>15</b>		0.56	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Iron</b>	<b>14000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Lead</b>	<b>8.2</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Magnesium</b>	<b>49000</b>		5.6	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Calcium</b>	<b>100000</b>		110	36	mg/Kg	☼	09/10/15 18:43	09/14/15 13:23	10
<b>Manganese</b>	<b>410</b>		0.56	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Nickel</b>	<b>16</b>		0.56	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Thallium</b>	<b>0.88</b>		0.56	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Vanadium</b>	<b>17</b>		0.28	0.082	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Zinc</b>	<b>33</b>		1.1	0.35	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Potassium</b>	<b>1700</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1
<b>Sodium</b>	<b>2400</b>		56	7.4	mg/Kg	☼	09/10/15 18:43	09/12/15 07:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 04:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 04:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 04:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B02 (0-0.5)**

**Lab Sample ID: 500-100874-2**

**Date Collected: 09/04/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>360</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:27	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 04:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 04:27	1
<b>Magnesium</b>	<b>65</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:27	1
<b>Manganese</b>	<b>0.39</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
<b>Potassium</b>	<b>1.6 J</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:27	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 04:27	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:27	1
Zinc	<0.10		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Barium</b>	<b>0.33 J</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 22:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 22:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Calcium</b>	<b>32</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Chromium</b>	<b>0.021 J</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Iron</b>	<b>16</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Nickel</b>	<b>0.022 J</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Potassium</b>	<b>5.6</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 22:35	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Vanadium</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:35	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

**Client Sample ID: 2618-4-B02 (0-0.5)**

**Lab Sample ID: 500-100874-2**

**Date Collected: 09/04/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 08:53	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.020</b>		0.016	0.0057	mg/Kg	☼	09/11/15 17:00	09/14/15 13:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:52	1
pH	<b>8.94</b>		0.200	0.200	SU			09/11/15 12:51	1





# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

# TestAmerica

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2417 Bond Street, University Park, IL 6  
Phone: 708.534.5200 Fax: 708.534.5201



500-100874 COC

Report To (optional)  
Contact: MATT WEISS  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-100874

Chain of Custody Number: \_\_\_\_\_

Page 1 of 10

Temperature °C of Cooler: 20.8, 3.2, 3.1, 2.7, 2.4, 3.1, 3.0

Client		Client Project #		Preservative		Parameter		Temperature		Comments	
TERRACON		1157108				NOGS SVOCs		TOTAL 24 INORGANICS		TCLP 24 INORGANICS	
Project Name		Lab Project #						SPCL 24 INORGANICS		PH	
Project Location/State		Lab PM									
Hoffmann Estates		Tony Bolasima									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Temperature		Comments		
			Date	Time			°C	°F			
1		2618-4-B01 (0-0.5)	9/4/15	1050	6	SO	+	+	+	+	
2		2618-4-B02 (0-0.5)	9/4/15	1055	6	SO	+	+	+	+	

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

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

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

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/4/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1600</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1855</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>9/4/15</u> Time: <u>2100</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

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

Client Comments: MEET IL TACO REQUIREMENTS DO NOT RUN AMMONIUM FOR TOTAL TCLP/SPCL ANALYSIS

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-1

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Corner of Route IL 58 Road and Rohrssen Rd IDOT STA 436+50 to 438+90 (ISGS Site 2618-5)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.04490 Longitude: -88.21681  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04490 Longitude: -88.21681

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2618-5. See Exhibits 2 and 2C and Table 9 of the Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015.

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

TestAmerica Lab Report No J100874.  
Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

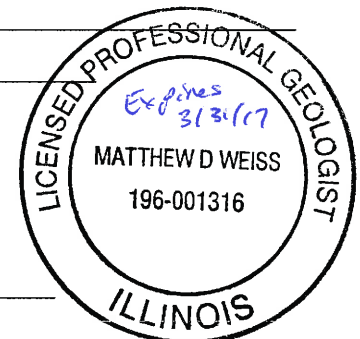
Matt Weiss

Printed Name:

Matt

12/16/15

Date:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-5-B01 (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)
				mg/kg pH 6.25-9.0	Date Collected	09/04/2015
Chicago	MSAs					
<b>Semivolatile Organic Analytical Parameters</b>						
Fluoranthene	mg/kg	2.7	4.1	3100		0.0079
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		9.1
Barium	mg/kg	---	110	1500		46
Cadmium	mg/kg	---	0.6	5.2		<0.12
Chromium, total	mg/kg	---	16.2	21		16
Lead	mg/kg	---	36	107		13
Mercury	mg/kg	---	0.06	0.1		0.035
Selenium	mg/kg	---	0.48	1.3		<0.59
Silver	mg/kg	---	0.55	4.4		<0.30
Antimony	mg/kg	---	4.0	5		0.48
Beryllium	mg/kg	---	0.59	22		0.6
Calcium	mg/kg	---	9,300	---		52000
Cobalt	mg/kg	---	8.9	20		10
Copper	mg/kg	---	19.6	2900		22
Cyanide	mg/kg	---	0.51	---		<0.58
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		31000
Manganese	mg/kg	---	636	630		510
Nickel	mg/kg	---	18	100		25
Potassium	mg/kg	---	1,268	---		2200
Sodium	mg/kg	---	130	---		2000
Thallium	mg/kg	---	0.32	2.6		1.9
Vanadium	mg/kg	---	25.2	550		21
Zinc	mg/kg	---	95	5100		49
pH			6.25	9		8.34
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050
Barium,SPLP	mg/L	---	---	---		0.37
Beryllium,SPLP	mg/L	---	---	---		<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050
Calcium,SPLP	mg/L	---	---	---		36
Chromium,SPLP	mg/L	---	---	---		0.01
Cobalt,SPLP	mg/L	---	---	---		<0.025
Copper,SPLP	mg/L	---	---	---		0.024
Iron,SPLP	mg/L	---	---	---		5.3
Lead,SPLP	mg/L	---	---	---		0.12
Magnesium,SPLP	mg/L	---	---	---		11
Manganese,SPLP	mg/L	---	---	---		0.28
Mercury,SPLP	mg/L	---	---	---		<0.00020
Nickel,SPLP	mg/L	---	---	---		0.011
Potassium,SPLP	mg/L	---	---	---		2.9
Selenium,SPLP	mg/L	---	---	---		<0.050
Silver,SPLP	mg/L	---	---	---		<0.025
Sodium,SPLP	mg/L	---	---	---		---
Thallium,SPLP	mg/L	---	---	---		<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.016
Zinc,SPLP	mg/L	---	---	---		0.19
Cyanide,SPLP	mg/L	---	---	---		---

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-5-B01 (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.35
Cadmium,TCLP	mg/L	---	---	---		<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050
Silver,TCLP	mg/L	---	---	---		<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		330
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		<0.025
Cyanide,TCLP	mg/L	---	---	---		----
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		79
Manganese,TCLP	mg/L	---	---	---		0.28
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		3.6
Sodium,TCLP	mg/L	---	---	---		----
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.074

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100874-2  
Client Project/Site: IDOT - Hoffman Estates - WO 08

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

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/21/2015 2:19:46 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Job ID: 500-100874-2**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100874-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

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

#### GC/MS Semi VOA

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

#### Metals

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B02 (0-0.5)**

**Lab Sample ID: 500-100874-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.010	J	0.035	0.0048	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.0096	J	0.035	0.0069	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J	0.035	0.0077	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.013	J	0.035	0.0097	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.015	J	0.035	0.0066	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.0086	J	0.035	0.0050	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.016	J	0.035	0.0071	mg/Kg	1		☼	8270D	Total/NA
Arsenic	8.2		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	48		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.53		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.046	J	0.11	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	14		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	8.5		0.28	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	28000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	47000		11	3.7	mg/Kg	1		☼	6010B	Total/NA
Manganese	370		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	21		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.3		0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	49		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2000		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	1900		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.3		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1			6010B	TCLP
Barium	0.53		0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	45		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.013	J	0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.014	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.043		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	9.6		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	14		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.025		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	4.2		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.028		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.27		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.019		0.019	0.0066	mg/Kg	1		☼	7471B	Total/NA
pH	9.05		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-5-B01 (0-0.5)**

**Lab Sample ID: 500-100874-4**

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B01 (0-0.5) (Continued)**

**Lab Sample ID: 500-100874-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0079	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	510		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.9		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	79		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.074	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	36		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	5.3		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.035		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.34		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-3	2618-5-B02 (0-0.5)	Solid	09/04/15 09:05	09/04/15 21:00
500-100874-4	2618-5-B01 (0-0.5)	Solid	09/04/15 09:15	09/04/15 21:00

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B02 (0-0.5)**

**Lab Sample ID: 500-100874-3**

Date Collected: 09/04/15 09:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Bromomethane	<0.0042	*	0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 22:30	09/10/15 16:26	1
Dibromofluoromethane	95		75 - 120	09/04/15 22:30	09/10/15 16:26	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/04/15 22:30	09/10/15 16:26	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/10/15 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
<b>Benzo[a]anthracene</b>	<b>0.010</b>	<b>J</b>	0.035	0.0048	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B02 (0-0.5)**

**Lab Sample ID: 500-100874-3**

**Date Collected: 09/04/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0096</b>	<b>J</b>	0.035	0.0069	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
<b>Benzo[b]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.035	0.0077	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.035	0.0097	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.035	0.0066	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2-Methylnaphthalene	<0.035		0.035	0.0066	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B02 (0-0.5)**

**Lab Sample ID: 500-100874-3**

Date Collected: 09/04/15 09:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
<b>Phenanthrene</b>	<b>0.0086</b>	<b>J</b>	0.035	0.0050	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
<b>Pyrene</b>	<b>0.016</b>	<b>J</b>	0.035	0.0071	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119				09/10/15 07:29	09/14/15 21:46	1
2-Fluorophenol	77		25 - 110				09/10/15 07:29	09/14/15 21:46	1
Nitrobenzene-d5	89		25 - 115				09/10/15 07:29	09/14/15 21:46	1
Phenol-d5	83		31 - 110				09/10/15 07:29	09/14/15 21:46	1
Terphenyl-d14	107		36 - 134				09/10/15 07:29	09/14/15 21:46	1
2,4,6-Tribromophenol	73		35 - 137				09/10/15 07:29	09/14/15 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Arsenic</b>	<b>8.2</b>		0.57	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Barium</b>	<b>48</b>		0.57	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Beryllium</b>	<b>0.53</b>		0.23	0.049	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Cadmium</b>	<b>0.046</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Chromium</b>	<b>14</b>		0.57	0.098	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Cobalt</b>	<b>8.5</b>		0.28	0.064	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Copper</b>	<b>21</b>		0.57	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Lead</b>	<b>15</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Magnesium</b>	<b>28000</b>		5.7	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Calcium</b>	<b>47000</b>		11	3.7	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Manganese</b>	<b>370</b>		0.57	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Nickel</b>	<b>21</b>		0.57	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Thallium</b>	<b>1.3</b>		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Vanadium</b>	<b>19</b>		0.28	0.083	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Zinc</b>	<b>49</b>		1.1	0.36	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Potassium</b>	<b>2000</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1
<b>Sodium</b>	<b>1900</b>		57	7.5	mg/Kg	☼	09/10/15 18:43	09/12/15 07:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 04:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 04:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 04:34	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B02 (0-0.5)**

**Lab Sample ID: 500-100874-3**

**Date Collected: 09/04/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 04:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 04:34	1
<b>Magnesium</b>	<b>68</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:34	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
<b>Potassium</b>	<b>4.3</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 04:34	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:34	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 04:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 22:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 22:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Calcium</b>	<b>45</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Chromium</b>	<b>0.013</b>	J	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Cobalt</b>	<b>0.014</b>	J	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Copper</b>	<b>0.043</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Iron</b>	<b>9.6</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Magnesium</b>	<b>14</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Potassium</b>	<b>4.2</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 22:42	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Vanadium</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:42	1
<b>Zinc</b>	<b>0.27</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B02 (0-0.5)**

**Lab Sample ID: 500-100874-3**

**Date Collected: 09/04/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.8**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 08:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.019</b>		0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 13:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:52	1
pH	<b>9.05</b>		0.200	0.200	SU			09/11/15 13:03	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B01 (0-0.5)**

**Lab Sample ID: 500-100874-4**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Bromomethane	<0.0044	*	0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 22:30	09/10/15 16:50	1
Dibromofluoromethane	93		75 - 120	09/04/15 22:30	09/10/15 16:50	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/04/15 22:30	09/10/15 16:50	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/10/15 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B01 (0-0.5)**

**Lab Sample ID: 500-100874-4**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
<b>Fluoranthene</b>	<b>0.0079</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B01 (0-0.5)**

**Lab Sample ID: 500-100874-4**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/10/15 07:29	09/14/15 22:14	1
2-Fluorophenol	78		25 - 110	09/10/15 07:29	09/14/15 22:14	1
Nitrobenzene-d5	90		25 - 115	09/10/15 07:29	09/14/15 22:14	1
Phenol-d5	81		31 - 110	09/10/15 07:29	09/14/15 22:14	1
Terphenyl-d14	103		36 - 134	09/10/15 07:29	09/14/15 22:14	1
2,4,6-Tribromophenol	68		35 - 137	09/10/15 07:29	09/14/15 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Arsenic</b>	<b>9.1</b>		0.59	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Barium</b>	<b>46</b>		0.59	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Beryllium</b>	<b>0.60</b>		0.24	0.051	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Chromium</b>	<b>16</b>		0.59	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Cobalt</b>	<b>10</b>		0.30	0.067	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Copper</b>	<b>22</b>		0.59	0.13	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Iron</b>	<b>21000</b>		12	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Lead</b>	<b>13</b>		0.30	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Magnesium</b>	<b>31000</b>		5.9	2.4	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Calcium</b>	<b>52000</b>		12	3.8	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Manganese</b>	<b>510</b>		0.59	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Nickel</b>	<b>25</b>		0.59	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Thallium</b>	<b>1.9</b>		0.59	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Vanadium</b>	<b>21</b>		0.30	0.086	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Zinc</b>	<b>49</b>		1.2	0.37	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Potassium</b>	<b>2200</b>		30	4.8	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1
<b>Sodium</b>	<b>2000</b>		59	7.8	mg/Kg	☼	09/10/15 18:43	09/12/15 07:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:00	09/17/15 04:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 04:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 04:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B01 (0-0.5)**

**Lab Sample ID: 500-100874-4**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:41	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 04:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 04:41	1
<b>Magnesium</b>	<b>79</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:41	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
<b>Potassium</b>	<b>3.6</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 04:41	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:41	1
<b>Zinc</b>	<b>0.074 J</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Barium</b>	<b>0.37 J</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 22:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Calcium</b>	<b>36</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Chromium</b>	<b>0.010 J</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Copper</b>	<b>0.024 J</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Iron</b>	<b>5.3</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Magnesium</b>	<b>11</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Nickel</b>	<b>0.011 J</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 22:48	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Vanadium</b>	<b>0.016 J</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:48	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

**Client Sample ID: 2618-5-B01 (0-0.5)**

**Lab Sample ID: 500-100874-4**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:01	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.035</b>		0.019	0.0067	mg/Kg	☼	09/11/15 17:00	09/14/15 13:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:53	1
pH	<b>8.34</b>		0.200	0.200	SU			09/11/15 13:09	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-2

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

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

## Glossary

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional) MATT WEISS Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_ Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100874  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 10  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #								Comments		
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
3		2618-5-B02 (0-0.5)	9/4/15	905	6	SO	VOCS	SVOCS	TOTAL	TEP	SPUP	DI
4		2618-5-B01 (0-0.5)	9/4/15	915	6	SO			2cl	2cl	2cl	
									INORGANICS	INORGANICS	INORGANICS	

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

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

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/4/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1600</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1855</u>	Received By: <u>[Signature]</u> Company: <u>DA-CHE</u> Date: <u>9/4/15</u> Time: <u>2100</u>

Lab Courier: [Signature]  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: SAME SEE PG. 1

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-2

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Corner of Route IL 58 Road and Rohrssen Rd IDOT STA 441+00 to 442+60 (ISGS Site 2618-6)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.04499 Longitude: -88.21659  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04499 Longitude: -88.21659

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B01 and B02 were sampled adjacent to ISGS Site No 2618-6. See Exhibits 2 and 2C and Table 11 of the Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015.

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

TestAmerica Lab Report No J100874.  
Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

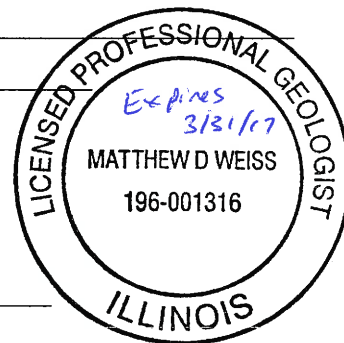
Matt Weiss

Printed Name:

Matt

12/16/15

Date:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

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

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009;Work Order:08A

FAP 559 -IL 58 from Rohrssen Rd to west of Barrington Rd (PESA #2618-6)

Cook County, IL

Terracon Project No. 11157108

Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-6-B01 (0-0.5)	2618-6-B01 DUP (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)	(0-0.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015
<b>Volatile Organic Analytical Parameters</b>							
Acetone	mg/kg	---	---	25		0.045	0.032
2-Butanone	mg/kg	---	---	17		0.0054	0.0049
<b>Semivolatile Organic Analytical Parameters</b>							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.016	0.024
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.018	0.03
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.038	0.059
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	0.024
Chrysene	mg/kg	1.2	2.7	88		0.021	0.033
Fluoranthene	mg/kg	2.7	4.1	3100		0.052	0.054
Phenanthrene	mg/kg	1.3	2.5	210		0.032	0.026
Pyrene	mg/kg	1.9	3.0	2300		0.044	0.059
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		6.6	13
Barium	mg/kg	---	110	1500		41	65
Cadmium	mg/kg	---	0.6	5.2		<0.12	0.07
Chromium, total	mg/kg	---	16.2	21		7.6	14
Lead	mg/kg	---	36	107		8.4	18
Mercury	mg/kg	---	0.06	0.1		0.016	0.029
Selenium	mg/kg	---	0.48	1.3		<0.58	<0.58
Silver	mg/kg	---	0.55	4.4		<0.29	<0.29
Antimony	mg/kg	---	4.0	5		<1.2	0.4
Beryllium	mg/kg	---	0.59	22		0.33	0.63
Calcium	mg/kg	---	9,300	---		34000	43000
Cobalt	mg/kg	---	8.9	20		4.7	6.5
Copper	mg/kg	---	19.6	2900		9.4	25
Cyanide	mg/kg	---	0.51	---		<0.58	<0.58
Iron	mg/kg	---	15,900	15000		10000	22000
Magnesium	mg/kg	---	4,820	325000		21000	28000
Manganese	mg/kg	---	636	630		490	500
Nickel	mg/kg	---	18	100		9.2	21
Potassium	mg/kg	---	1,268	---		730	1400
Sodium	mg/kg	---	130	---		1800	2800
Thallium	mg/kg	---	0.32	2.6		1	1.5
Vanadium	mg/kg	---	25.2	550		14	24
Zinc	mg/kg	---	95	5100		25	74
pH			6.25	9		8.67	8.82
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.061	0.011
Barium,SPLP	mg/L	---	---	---		0.91	0.39
Beryllium,SPLP	mg/L	---	---	---		0.0059	<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		29	27
Chromium,SPLP	mg/L	---	---	---		0.12	0.01
Cobalt,SPLP	mg/L	---	---	---		0.034	<0.025
Copper,SPLP	mg/L	---	---	---		0.16	0.055
Iron,SPLP	mg/L	---	---	---		120	7.8
Lead,SPLP	mg/L	---	---	---		0.11	0.052
Magnesium,SPLP	mg/L	---	---	---		23	9.7
Manganese,SPLP	mg/L	---	---	---		1.5	0.56
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.1	0.017
Potassium,SPLP	mg/L	---	---	---		14	3.2
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		----	----
Thallium,SPLP	mg/L	---	---	---		<0.0020	<0.0020

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009;Work Order:08A

FAP 559 -IL 58 from Rohrssen Rd to west of Barrington Rd (PESA #2618-6)

Cook County, IL

Terracon Project No. 11157108

Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-6-B01 (0-0.5)	2618-6-B01 DUP (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)	(0-0.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015
Vanadium,SPLP	mg/L	---	---	---		0.24	0.024
Zinc,SPLP	mg/L	---	---	---		0.55	0.27
Cyanide,SPLP	mg/L	---	---	---		----	----
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.67	0.57
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		170	240
Cobalt,TCLP	mg/L	---	---	---		0.013	0.013
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		78	90
Manganese,TCLP	mg/L	---	---	---		4.9	3.7
Nickel,TCLP	mg/L	---	---	---		0.015	0.027
Potassium,TCLP	mg/L	---	---	---		6.7	5.6
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.11	0.92

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-6-B02 (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015
<b>Volatile Organic Analytical Parameters</b>						
Acetone	mg/kg	---	---	25		<0.018
2-Butanone	mg/kg	---	---	17		<0.0044
<b>Semivolatile Organic Analytical Parameters</b>						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037
Chrysene	mg/kg	1.2	2.7	88		<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037
Phenanthrene	mg/kg	1.3	2.5	210		<0.037
Pyrene	mg/kg	1.9	3.0	2300		<0.037
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		7.7
Barium	mg/kg	---	110	1500		65
Cadmium	mg/kg	---	0.6	5.2		<0.11
Chromium, total	mg/kg	---	16.2	21		13
Lead	mg/kg	---	36	107		9.4
Mercury	mg/kg	---	0.06	0.1		0.021
Selenium	mg/kg	---	0.48	1.3		<0.57
Silver	mg/kg	---	0.55	4.4		<0.28
Antimony	mg/kg	---	4.0	5		0.33
Beryllium	mg/kg	---	0.59	22		0.55
Calcium	mg/kg	---	9,300	---		41000
Cobalt	mg/kg	---	8.9	20		6.7
Copper	mg/kg	---	19.6	2900		15
Cyanide	mg/kg	---	0.51	---		<0.58
Iron	mg/kg	---	15,900	15000		18000
Magnesium	mg/kg	---	4,820	325000		26000
Manganese	mg/kg	---	636	630		420
Nickel	mg/kg	---	18	100		15
Potassium	mg/kg	---	1,268	---		1300
Sodium	mg/kg	---	130	---		1500
Thallium	mg/kg	---	0.32	2.6		0.91
Vanadium	mg/kg	---	25.2	550		27
Zinc	mg/kg	---	95	5100		37
pH			6.25	9		8.64
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050
Barium,SPLP	mg/L	---	---	---		0.59
Beryllium,SPLP	mg/L	---	---	---		<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050
Calcium,SPLP	mg/L	---	---	---		30
Chromium,SPLP	mg/L	---	---	---		0.015
Cobalt,SPLP	mg/L	---	---	---		<0.025
Copper,SPLP	mg/L	---	---	---		0.04
Iron,SPLP	mg/L	---	---	---		9
Lead,SPLP	mg/L	---	---	---		0.023
Magnesium,SPLP	mg/L	---	---	---		10
Manganese,SPLP	mg/L	---	---	---		0.63
Mercury,SPLP	mg/L	---	---	---		<0.00020
Nickel,SPLP	mg/L	---	---	---		0.019
Potassium,SPLP	mg/L	---	---	---		3.2
Selenium,SPLP	mg/L	---	---	---		<0.050
Silver,SPLP	mg/L	---	---	---		<0.025
Sodium,SPLP	mg/L	---	---	---		----
Thallium,SPLP	mg/L	---	---	---		<0.0020

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-6-B02 (0-0.5)
				CCDD	Sample Depth (feet)	(0-0.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015
Vanadium,SPLP	mg/L	---	---	---		0.036
Zinc,SPLP	mg/L	---	---	---		0.33
Cyanide,SPLP	mg/L	---	---	---		----
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.65
Cadmium,TCLP	mg/L	---	---	---		<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050
Silver,TCLP	mg/L	---	---	---		<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		250
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		<0.025
Cyanide,TCLP	mg/L	---	---	---		----
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		110
Manganese,TCLP	mg/L	---	---	---		1.4
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		4.8
Sodium,TCLP	mg/L	---	---	---		----
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.36



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100874-3  
Client Project/Site: IDOT - Hoffman Estates - WO 08

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

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/21/2015 2:20:25 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Job ID: 500-100874-3**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative  
500-100874-3**

### Comments

No additional comments.

### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

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

### GC/MS Semi VOA

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with 500-303593 had 1 analyte outside control limits: 2,4-Dinitrophenol; therefore, corrective action was not performed. These results have been reported and qualified.

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

### Metals

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

### General Chemistry

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

### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 (0-0.5)**

**Lab Sample ID: 500-100874-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.045		0.021	0.0042	mg/Kg	1	*	8260B	Total/NA	
2-Butanone (MEK)	0.0054		0.0054	0.0019	mg/Kg	1	*	8260B	Total/NA	
Benzo[a]anthracene	0.016	J	0.038	0.0052	mg/Kg	1	*	8270D	Total/NA	
Benzo[a]pyrene	0.018	J	0.038	0.0075	mg/Kg	1	*	8270D	Total/NA	
Benzo[b]fluoranthene	0.038		0.038	0.0083	mg/Kg	1	*	8270D	Total/NA	
Chrysene	0.021	J	0.038	0.011	mg/Kg	1	*	8270D	Total/NA	
Fluoranthene	0.052		0.038	0.0072	mg/Kg	1	*	8270D	Total/NA	
Phenanthrene	0.032	J	0.038	0.0054	mg/Kg	1	*	8270D	Total/NA	
Pyrene	0.044		0.038	0.0077	mg/Kg	1	*	8270D	Total/NA	
Arsenic	6.6		0.58	0.27	mg/Kg	1	*	6010B	Total/NA	
Barium	41		0.58	0.11	mg/Kg	1	*	6010B	Total/NA	
Beryllium	0.33		0.23	0.050	mg/Kg	1	*	6010B	Total/NA	
Chromium	7.6		0.58	0.10	mg/Kg	1	*	6010B	Total/NA	
Cobalt	4.7		0.29	0.066	mg/Kg	1	*	6010B	Total/NA	
Copper	9.4		0.58	0.13	mg/Kg	1	*	6010B	Total/NA	
Iron	10000		12	4.5	mg/Kg	1	*	6010B	Total/NA	
Lead	8.4		0.29	0.15	mg/Kg	1	*	6010B	Total/NA	
Magnesium	21000		5.8	2.4	mg/Kg	1	*	6010B	Total/NA	
Calcium	34000		12	3.8	mg/Kg	1	*	6010B	Total/NA	
Manganese	490		0.58	0.12	mg/Kg	1	*	6010B	Total/NA	
Nickel	9.2		0.58	0.16	mg/Kg	1	*	6010B	Total/NA	
Thallium	1.0		0.58	0.29	mg/Kg	1	*	6010B	Total/NA	
Vanadium	14		0.29	0.085	mg/Kg	1	*	6010B	Total/NA	
Zinc	25		1.2	0.37	mg/Kg	1	*	6010B	Total/NA	
Potassium	730		29	4.8	mg/Kg	1	*	6010B	Total/NA	
Sodium	1800		58	7.7	mg/Kg	1	*	6010B	Total/NA	
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	170		2.5	0.50	mg/L	1		6010B	TCLP	
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	4.9		0.025	0.010	mg/L	1		6010B	TCLP	
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	6.7		2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP	
Arsenic	0.061		0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.91		0.50	0.050	mg/L	1		6010B	SPLP East	
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East	
Calcium	29		2.5	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.16		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.10		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East	
Zinc	0.55		0.10	0.020	mg/L	1		6010B	SPLP East	
Mercury	0.016	J	0.017	0.0060	mg/Kg	1	*	7471B	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

## Client Sample ID: 2618-6-B01 (0-0.5) (Continued)

## Lab Sample ID: 500-100874-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
pH	8.67		0.200	0.200	SU	1			9045D	Total/NA

## Client Sample ID: 2618-6-B01 DUP (0-0.5)

## Lab Sample ID: 500-100874-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.032		0.021	0.0040	mg/Kg	1			8260B	Total/NA
2-Butanone (MEK)	0.0049	J	0.0052	0.0018	mg/Kg	1			8260B	Total/NA
Benzo[a]anthracene	0.024	J	0.038	0.0052	mg/Kg	1			8270D	Total/NA
Benzo[a]pyrene	0.030	J	0.038	0.0074	mg/Kg	1			8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.038	0.0083	mg/Kg	1			8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.038	0.011	mg/Kg	1			8270D	Total/NA
Chrysene	0.033	J	0.038	0.010	mg/Kg	1			8270D	Total/NA
Fluoranthene	0.054		0.038	0.0071	mg/Kg	1			8270D	Total/NA
Phenanthrene	0.026	J	0.038	0.0054	mg/Kg	1			8270D	Total/NA
Pyrene	0.059		0.038	0.0076	mg/Kg	1			8270D	Total/NA
Antimony	0.40	J	1.2	0.24	mg/Kg	1			6010B	Total/NA
Arsenic	13		0.58	0.27	mg/Kg	1			6010B	Total/NA
Barium	65		0.58	0.11	mg/Kg	1			6010B	Total/NA
Beryllium	0.63		0.23	0.050	mg/Kg	1			6010B	Total/NA
Cadmium	0.070	J	0.12	0.033	mg/Kg	1			6010B	Total/NA
Chromium	14		0.58	0.099	mg/Kg	1			6010B	Total/NA
Cobalt	6.5		0.29	0.065	mg/Kg	1			6010B	Total/NA
Copper	25		0.58	0.13	mg/Kg	1			6010B	Total/NA
Iron	22000		12	4.5	mg/Kg	1			6010B	Total/NA
Lead	18		0.29	0.14	mg/Kg	1			6010B	Total/NA
Magnesium	28000		5.8	2.3	mg/Kg	1			6010B	Total/NA
Calcium	43000		12	3.7	mg/Kg	1			6010B	Total/NA
Manganese	500		0.58	0.11	mg/Kg	1			6010B	Total/NA
Nickel	21		0.58	0.16	mg/Kg	1			6010B	Total/NA
Thallium	1.5		0.58	0.28	mg/Kg	1			6010B	Total/NA
Vanadium	24		0.29	0.084	mg/Kg	1			6010B	Total/NA
Zinc	74		1.2	0.37	mg/Kg	1			6010B	Total/NA
Potassium	1400		29	4.7	mg/Kg	1			6010B	Total/NA
Sodium	2800		58	7.6	mg/Kg	1			6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	240		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	3.7		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	5.6		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.92		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.39	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	27		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.010	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.055		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	7.8		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.052		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	9.7		2.5	0.50	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

## Client Sample ID: 2618-6-B01 DUP (0-0.5) (Continued)

## Lab Sample ID: 500-100874-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.56		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.2		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.27		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.82		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-6-B02 (0-0.5)

## Lab Sample ID: 500-100874-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.33	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	41000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.91		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.36		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.59		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	9.0		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.023		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.2		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.33		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.021		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.64		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-5	2618-6-B01 (0-0.5)	Solid	09/04/15 08:45	09/04/15 21:00
500-100874-6	2618-6-B01 DUP (0-0.5)	Solid	09/04/15 08:45	09/04/15 21:00
500-100874-7	2618-6-B02 (0-0.5)	Solid	09/04/15 11:00	09/04/15 21:00

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 (0-0.5)**

**Lab Sample ID: 500-100874-5**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.045</b>		0.021	0.0042	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Bromomethane	<0.0054 *		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
<b>2-Butanone (MEK)</b>	<b>0.0054</b>		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Carbon tetrachloride	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Chloroform	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 22:30	09/10/15 17:14	1
Dibromofluoromethane	97		75 - 120	09/04/15 22:30	09/10/15 17:14	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/04/15 22:30	09/10/15 17:14	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/10/15 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
<b>Benzo[a]anthracene</b>	<b>0.016</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 (0-0.5)**

**Lab Sample ID: 500-100874-5**

**Date Collected: 09/04/15 08:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
<b>Benzo[b]fluoranthene</b>	<b>0.038</b>		0.038	0.0083	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
<b>Chrysene</b>	<b>0.021</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
<b>Fluoranthene</b>	<b>0.052</b>		0.038	0.0072	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 (0-0.5)**

**Lab Sample ID: 500-100874-5**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
<b>Phenanthrene</b>	<b>0.032</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
<b>Pyrene</b>	<b>0.044</b>		0.038	0.0077	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	09/10/15 07:29	09/14/15 22:41	1
2-Fluorophenol	73		25 - 110	09/10/15 07:29	09/14/15 22:41	1
Nitrobenzene-d5	85		25 - 115	09/10/15 07:29	09/14/15 22:41	1
Phenol-d5	79		31 - 110	09/10/15 07:29	09/14/15 22:41	1
Terphenyl-d14	102		36 - 134	09/10/15 07:29	09/14/15 22:41	1
2,4,6-Tribromophenol	75		35 - 137	09/10/15 07:29	09/14/15 22:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Arsenic</b>	<b>6.6</b>		0.58	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Barium</b>	<b>41</b>		0.58	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Beryllium</b>	<b>0.33</b>		0.23	0.050	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Chromium</b>	<b>7.6</b>		0.58	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Cobalt</b>	<b>4.7</b>		0.29	0.066	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Copper</b>	<b>9.4</b>		0.58	0.13	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Iron</b>	<b>10000</b>		12	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Lead</b>	<b>8.4</b>		0.29	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Magnesium</b>	<b>21000</b>		5.8	2.4	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Calcium</b>	<b>34000</b>		12	3.8	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Manganese</b>	<b>490</b>		0.58	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Nickel</b>	<b>9.2</b>		0.58	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Thallium</b>	<b>1.0</b>		0.58	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Vanadium</b>	<b>14</b>		0.29	0.085	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Zinc</b>	<b>25</b>		1.2	0.37	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Potassium</b>	<b>730</b>		29	4.8	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1
<b>Sodium</b>	<b>1800</b>		58	7.7	mg/Kg	☼	09/10/15 18:43	09/12/15 07:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
<b>Barium</b>	<b>0.67</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 04:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 04:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 04:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 (0-0.5)**

**Lab Sample ID: 500-100874-5**

**Date Collected: 09/04/15 08:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>170</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:47	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 04:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 04:47	1
<b>Magnesium</b>	<b>78</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:47	1
<b>Manganese</b>	<b>4.9</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
<b>Potassium</b>	<b>6.7</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:47	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 04:47	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:47	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 04:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.061</b>		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Barium</b>	<b>0.91</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 22:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Calcium</b>	<b>29</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Cobalt</b>	<b>0.034</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Copper</b>	<b>0.16</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 22:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 22:55	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Vanadium</b>	<b>0.24</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 22:55	1
<b>Zinc</b>	<b>0.55</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 (0-0.5)**

**Lab Sample ID: 500-100874-5**

**Date Collected: 09/04/15 08:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:07	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 13:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:53	1
pH	8.67		0.200	0.200	SU			09/16/15 15:20	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 DUP (0-0.5)**

**Lab Sample ID: 500-100874-6**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.032</b>		0.021	0.0040	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Bromomethane	<0.0052	*	0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
<b>2-Butanone (MEK)</b>	<b>0.0049</b>	<b>J</b>	0.0052	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/10/15 17:38	1
Dibromofluoromethane	100		75 - 120	09/04/15 22:30	09/10/15 17:38	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/04/15 22:30	09/10/15 17:38	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/10/15 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
<b>Benzo[a]anthracene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 DUP (0-0.5)**

**Lab Sample ID: 500-100874-6**

**Date Collected: 09/04/15 08:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.030</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
<b>Benzo[b]fluoranthene</b>	<b>0.059</b>		0.038	0.0083	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
<b>Benzo[k]fluoranthene</b>	<b>0.024</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
<b>Chrysene</b>	<b>0.033</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
<b>Fluoranthene</b>	<b>0.054</b>		0.038	0.0071	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 DUP (0-0.5)**

**Lab Sample ID: 500-100874-6**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
<b>Phenanthrene</b>	<b>0.026</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
<b>Pyrene</b>	<b>0.059</b>		0.038	0.0076	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	09/10/15 07:29	09/14/15 23:09	1
2-Fluorophenol	73		25 - 110	09/10/15 07:29	09/14/15 23:09	1
Nitrobenzene-d5	84		25 - 115	09/10/15 07:29	09/14/15 23:09	1
Phenol-d5	82		31 - 110	09/10/15 07:29	09/14/15 23:09	1
Terphenyl-d14	120		36 - 134	09/10/15 07:29	09/14/15 23:09	1
2,4,6-Tribromophenol	73		35 - 137	09/10/15 07:29	09/14/15 23:09	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.40</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Arsenic</b>	<b>13</b>		0.58	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Barium</b>	<b>65</b>		0.58	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.050	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Cadmium</b>	<b>0.070</b>	<b>J</b>	0.12	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Chromium</b>	<b>14</b>		0.58	0.099	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Cobalt</b>	<b>6.5</b>		0.29	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Copper</b>	<b>25</b>		0.58	0.13	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Iron</b>	<b>22000</b>		12	4.5	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Lead</b>	<b>18</b>		0.29	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Magnesium</b>	<b>28000</b>		5.8	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Calcium</b>	<b>43000</b>		12	3.7	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Manganese</b>	<b>500</b>		0.58	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Nickel</b>	<b>21</b>		0.58	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Thallium</b>	<b>1.5</b>		0.58	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Vanadium</b>	<b>24</b>		0.29	0.084	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Zinc</b>	<b>74</b>		1.2	0.37	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Potassium</b>	<b>1400</b>		29	4.7	mg/Kg	☼	09/10/15 18:43	09/12/15 07:54	1
<b>Sodium</b>	<b>2800</b>		58	7.6	mg/Kg	☼	09/10/15 18:43	09/14/15 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
<b>Barium</b>	<b>0.57</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 04:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 04:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 04:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 DUP (0-0.5)**

**Lab Sample ID: 500-100874-6**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:54	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 04:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 04:54	1
<b>Magnesium</b>	<b>90</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:54	1
<b>Manganese</b>	<b>3.7</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
<b>Potassium</b>	<b>5.6</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 04:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 04:54	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 04:54	1
<b>Zinc</b>	<b>0.92</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Calcium</b>	<b>27</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Copper</b>	<b>0.055</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Iron</b>	<b>7.8</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Magnesium</b>	<b>9.7</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:02	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Vanadium</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:02	1
<b>Zinc</b>	<b>0.27</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:18	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B01 DUP (0-0.5)**

**Lab Sample ID: 500-100874-6**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:09	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0065	mg/Kg	☼	09/11/15 17:00	09/14/15 13:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:54	1
pH	8.82		0.200	0.200	SU			09/11/15 13:21	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B02 (0-0.5)**

**Lab Sample ID: 500-100874-7**

**Date Collected: 09/04/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Bromomethane	<0.0044	*	0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	09/04/15 22:30	09/10/15 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 22:30	09/10/15 18:03	1
Dibromofluoromethane	99		75 - 120	09/04/15 22:30	09/10/15 18:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/04/15 22:30	09/10/15 18:03	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/10/15 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B02 (0-0.5)**

**Lab Sample ID: 500-100874-7**

**Date Collected: 09/04/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,4-Dinitrophenol	<0.75 *		0.75	0.65	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B02 (0-0.5)**

**Lab Sample ID: 500-100874-7**

**Date Collected: 09/04/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	09/09/15 16:30	09/14/15 11:35	1
2-Fluorophenol	90		25 - 110	09/09/15 16:30	09/14/15 11:35	1
Nitrobenzene-d5	76		25 - 115	09/09/15 16:30	09/14/15 11:35	1
Phenol-d5	89		31 - 110	09/09/15 16:30	09/14/15 11:35	1
Terphenyl-d14	90		36 - 134	09/09/15 16:30	09/14/15 11:35	1
2,4,6-Tribromophenol	83		35 - 137	09/09/15 16:30	09/14/15 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.33</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Arsenic</b>	<b>7.7</b>		0.57	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Barium</b>	<b>65</b>		0.57	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Beryllium</b>	<b>0.55</b>		0.23	0.049	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Chromium</b>	<b>13</b>		0.57	0.098	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Cobalt</b>	<b>6.7</b>		0.28	0.064	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Copper</b>	<b>15</b>		0.57	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Lead</b>	<b>9.4</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Magnesium</b>	<b>26000</b>		5.7	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Calcium</b>	<b>41000</b>		11	3.7	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Manganese</b>	<b>420</b>		0.57	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Nickel</b>	<b>15</b>		0.57	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Thallium</b>	<b>0.91</b>		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Vanadium</b>	<b>27</b>		0.28	0.083	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Zinc</b>	<b>37</b>		1.1	0.36	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Potassium</b>	<b>1300</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1
<b>Sodium</b>	<b>1500</b>		57	7.5	mg/Kg	☼	09/10/15 18:43	09/12/15 08:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		09/16/15 10:00	09/17/15 05:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:00	09/17/15 05:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:00	09/17/15 05:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B02 (0-0.5)**

**Lab Sample ID: 500-100874-7**

**Date Collected: 09/04/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>250</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:01	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:00	09/17/15 05:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:00	09/17/15 05:01	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:01	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
<b>Potassium</b>	<b>4.8</b>		2.5	0.50	mg/L		09/16/15 10:00	09/17/15 05:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:00	09/17/15 05:01	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:00	09/17/15 05:01	1
<b>Zinc</b>	<b>0.36</b>		0.10	0.020	mg/L		09/16/15 10:00	09/17/15 05:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 23:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 23:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Calcium</b>	<b>30</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Chromium</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Copper</b>	<b>0.040</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Iron</b>	<b>9.0</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Lead</b>	<b>0.023</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Magnesium</b>	<b>10</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 23:09	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 23:09	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Vanadium</b>	<b>0.036</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 23:09	1
<b>Zinc</b>	<b>0.33</b>		0.10	0.020	mg/L		09/14/15 19:30	09/15/15 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:00	09/17/15 12:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:00	09/17/15 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/15/15 14:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:30	09/15/15 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

**Client Sample ID: 2618-6-B02 (0-0.5)**

**Lab Sample ID: 500-100874-7**

**Date Collected: 09/04/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:11	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 13:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:54	1
pH	8.64		0.200	0.200	SU			09/11/15 13:27	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-3

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

Report To (optional)  
 Contact: MATTHEWS  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-100874  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 10  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
<u>TERRACON</u>		<u>1157108</u>				<u>VOCS</u>	<u>SVOCS</u>	<u>TOTAL</u>	<u>TCD</u>	<u>SPCD</u>	<u>PT</u>	
Project Name		Lab Project #						<u>24</u>	<u>24</u>	<u>24</u>		
Project Location/State <u>TOFFMAN ESTATES</u>		Lab PM						<u>INORGANICS</u>	<u>INORGANICS</u>	<u>INORGANICS</u>		
Sampler <u>Tom Bellina</u>												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Comments					
			Date	Time								
<u>5</u>		<u>2618-6-B01 (0-0.5)</u>	<u>9/4/15</u>	<u>845</u>	<u>6</u>	<u>SO</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>
<u>6</u>		<u>11 11 11 DUPLICATE</u>	<u>9/4/15</u>	<u>845</u>	<u>1</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>7</u>		<u>2618-6-B02 (0-0.5)</u>	<u>9/4/15</u>	<u>1100</u>	<u>1</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other  X  
 Requested Due Date: \_\_\_\_\_

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

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/4/15</u> Time: <u>1608</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1600</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1855</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHT</u> Date: <u>9/4/15</u> Time: <u>2100</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: SAME SEE PG. 1

Lab Comments: \_\_\_\_\_



# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-3

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Route IL 58 Road IDOT STA 425+15 to 616+00 [Except as noted on Exhibits #2 through #8] (ISGS Site 2618-7)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.04574 Longitude: -88.19046

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04574 Longitude: -88.19046

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil borings B03, B04, B07, B11, B14 to B17, B19, B21 to B25, B27, B31, B35, B37, B38, B40 to B43, B45, B48, B49, B50, B54 to B56, B58 to B60, B63, B67 to B70, B79, B83, B88, B90 to B92 were sampled adjacent to ISGS Site No 2618-7. See Exhibits 2 and 2D to 8A (not 4D) and Table 13 of the Preliminary Site Investigation Report prepared by Terracon dated Dec 16, 2015.

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

TestAmerica Lab Report No J100741, J100826, J100833, J100839, J100873, J100874, J100875  
 Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

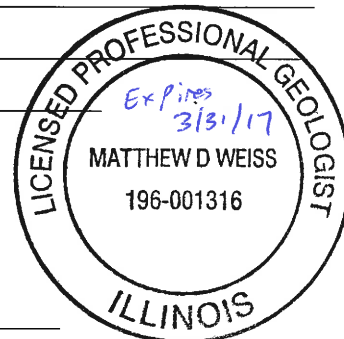
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss  
Printed Name:

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

12/16/15  
Date:



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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-7-B03 (0-2)	2618-7-B04 (0-2)	2618-7-B07 (0-2)	2618-7-B11 (0-2)	2618-7-B14 (0-2)	2618-7-B15 (0-2)	2618-7-B16 (0-2)	2618-7-B17 (0-2)	2618-7-B19 (0-2)	2618-7-B21 (0-2)	2618-7-B22 (0-2)	2618-7-B23 (0-2)	
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
		mg/kg	Date Collected	09/04/2015	09/04/2015	09/04/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015
		pH 6.25-9.0	Chicago	MSAs														
<b>Volatile Organic Analytical Parameters</b>																		
Acetone	mg/kg	---	---	25		0.024	<0.020	<0.022	<0.019	<0.019	<0.020	<0.022	<0.020	<0.021	<0.019	<0.019	<0.018	
2-Butanone	mg/kg	---	---	17		<0.0052	<0.0051	<0.0055	<0.0047	<0.0048	<0.0049	<0.0055	<0.0050	<0.0052	<0.0048	<0.0048	<0.0046	
<b>Semivolatile Organic Analytical Parameters</b>																		
Acenaphthene	mg/kg	0.09	0.13	570		<0.041	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	<0.039	<0.039	<0.038	<0.038	
Acenaphthylene	mg/kg	0.03	0.07	85		<0.041	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	<0.039	<0.039	<0.038	<0.038	
Anthracene	mg/kg	0.25	0.4	12000		0.011	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	<0.039	0.021	<0.038	<0.038	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.061	0.021	<0.040	<0.039	0.023	0.0072	0.038	0.012	0.038	0.065	<0.038	<0.038	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.09	0.024	<0.040	<0.039	0.023	0.0083	0.042	<0.039	0.039	0.061	<0.038	<0.038	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.12	0.04	0.009	<0.039	0.044	0.012	0.072	0.029	0.066	0.1	0.0096	<0.038	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.08	<0.039	<0.040	<0.039	<0.039	<0.039	0.016	<0.039	0.015	0.026	<0.038	<0.038	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.059	0.015	<0.040	<0.039	0.016	<0.039	0.028	0.011	0.028	0.035	<0.038	<0.038	
Chrysene	mg/kg	1.2	2.7	88		0.099	0.027	<0.040	<0.039	0.035	<0.039	0.057	0.02	0.049	0.085	<0.038	<0.038	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.041	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	<0.039	<0.039	<0.038	<0.038	
Fluoranthene	mg/kg	2.7	4.1	3100		0.074	0.037	0.0081	<0.039	0.031	0.017	0.066	0.022	0.066	0.12	0.0085	<0.038	
Fluorene	mg/kg	0.1	0.18	560		<0.041	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	<0.039	<0.039	<0.038	<0.038	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.059	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	0.017	0.027	<0.038	<0.038	
Naphthalene	mg/kg	0.04	0.2	1.8		0.0083	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	<0.039	0.019	<0.038	<0.038	
Phenanthrene	mg/kg	1.3	2.5	210		0.078	0.024	<0.040	<0.039	0.018	<0.039	0.037	0.013	0.036	0.31	<0.038	<0.038	
Pyrene	mg/kg	1.9	3.0	2300		0.22	0.041	0.0081	<0.039	0.035	0.012	0.081	0.029	0.08	0.16	0.0092	<0.038	
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.21	<0.20	<0.20	0.14	0.17	0.12	0.2	0.21	0.18	0.19	0.12	<0.19	
Butylbenzylphthalate	mg/kg	---	---	930		<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	
2-Methylnaphthalene	mg/kg	---	0.14	---		0.011	<0.039	<0.040	<0.039	<0.039	<0.039	<0.040	<0.039	<0.039	0.058	<0.038	<0.038	
<b>Inorganic Analytical Parameters</b>																		
Arsenic	mg/kg	---	13	11.3		9.3	12.0	11.0	9.9	10.0	8.8	9.8	7.7	8.0	5.3	8.6	13.0	
Barium	mg/kg	---	110	1500		87	52	98	78	73	66	69	81	77	96	52	56	
Cadmium	mg/kg	---	0.6	5.2		0.46	0.46	0.56	0.25	0.34	0.28	0.57	0.21	0.47	0.58	0.38	0.36	
Chromium, total	mg/kg	---	16.2	21		14	11	12	22	23	22	20	18	21	12	17	16	
Lead	mg/kg	---	36	107		72	95	32	13	50	14	160	15	82	93	13	49	
Mercury	mg/kg	---	0.06	0.1		0.033	0.039	0.05	0.028	0.063	0.057	0.059	0.057	0.035	0.031	0.019	0.032	
Selenium	mg/kg	---	0.48	1.3		0.65	0.58	0.52	1.1	1.3	0.98	1.1	0.98	1.1	0.92	0.79	0.83	
Silver	mg/kg	---	0.55	4.4		<0.30	<0.29	<0.30	0.097	0.14	0.1	0.091	0.077	0.1	0.14	0.11	0.087	
Antimony	mg/kg	---	4.0	5		0.38	0.76	0.57	0.54	0.48	0.43	0.52	0.37	0.49	0.47	0.43	0.44	
Beryllium	mg/kg	---	0.59	22		0.57	0.45	0.5	0.88	0.88	0.89	0.79	0.75	0.82	1.2	0.69	0.65	
Calcium	mg/kg	---	9,300	---		32000	18000	44000	30000	12000	39000	20000	25000	18000	51000	57000	41000	
Cobalt	mg/kg	---	8.9	20		11	9	9.8	10	12	11	10	9.4	9.7	6.5	9.1	8.1	
Copper	mg/kg	---	19.6	2900		18	19	17	27	28	25	27	17	25	21	26	24	
Cyanide	mg/kg	---	0.51	---		<0.61	<0.59	<0.62	<0.60	<0.59	<0.60	<0.59	<0.58	<0.58	<0.58	<0.53	<0.54	
Iron	mg/kg	---	15,900	15000		19000	21000	19000	24000	26000	23000	23000	19000	22000	19000	20000	25000	
Magnesium	mg/kg	---	4,820	325000		20000	50000	23000	19000	10000	25000	14000	17000	13000	30000	31000	27000	
Manganese	mg/kg	---	636	630		560	500	780	470	570	440	570	610	440	450	430	490	
Nickel	mg/kg	---	18	100		22	21	18	28	31	28	24	18	23	17	25	21	



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-7-B24 (0-2)	2618-7-B25 (0-2)	2618-7-B27 (0-2)	2618-7-B31 (0-2)	2618-7-B35 (0-2)	2618-7-B35 DUP (0-2)	2618-7-B37 (0-2)	2618-7-B38 (0-2)	2618-7-B40 (0-2)	2618-7-B41 (0-2)	2618-7-B42 (0-2)	2618-7-B43 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
		mg/kg pH 6.25-9.0	Date Collected	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015
<b>Volatile Organic Analytical Parameters</b>																	
Acetone	mg/kg	---	---	25		<0.020	<0.019	0.26	0.033	<0.022	<0.019	<0.018	<0.016	<0.023	<0.017	<0.026	<0.018
2-Butanone	mg/kg	---	---	17		<0.0051	<0.0048	0.052	0.0041	<0.0054	<0.0048	<0.0046	<0.0039	<0.0057	<0.0043	<0.0066	<0.0046
<b>Semivolatile Organic Analytical Parameters</b>																	
Acenaphthene	mg/kg	0.09	0.13	570		<0.039	<0.039	0.022	0.025	0.012	0.0075	<0.037	<0.038	<0.041	<0.035	<0.038	<0.040
Acenaphthylene	mg/kg	0.03	0.07	85		<0.039	<0.039	0.014	0.011	<0.038	<0.037	<0.037	<0.038	<0.041	<0.035	<0.038	<0.040
Anthracene	mg/kg	0.25	0.4	12000		<0.039	<0.039	0.072	0.13	0.038	0.027	0.0097	<0.038	0.014	<0.035	0.0083	<0.040
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0071	0.021	0.08	0.32	0.11	0.054	0.04	0.02	0.022	0.02	0.055	0.014
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.039	0.024	0.058	0.37	0.1	0.039	0.041	0.022	0.019	<0.035	0.064	0.015
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.012	0.041	0.089	0.62	0.18	0.062	0.079	0.042	0.034	0.037	0.11	0.023
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.039	<0.039	<0.042	0.13	0.037	0.014	<0.037	<0.038	<0.041	<0.035	0.032	<0.040
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.039	0.017	0.043	0.19	0.073	0.028	0.03	0.014	<0.041	0.014	0.043	<0.040
Chrysene	mg/kg	1.2	2.7	88		<0.039	0.026	0.079	0.37	0.12	0.052	0.054	0.03	0.03	0.024	0.072	0.016
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.039	<0.039	<0.042	0.037	<0.038	<0.037	<0.037	<0.038	<0.041	<0.035	<0.038	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		0.014	0.04	0.19	0.71	0.28	0.11	0.074	0.039	0.037	0.045	0.12	0.026
Fluorene	mg/kg	0.1	0.18	560		<0.039	<0.039	0.063	0.054	0.022	0.014	<0.037	<0.038	<0.041	<0.035	<0.038	<0.040
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039	0.011	<0.042	0.14	0.039	0.017	<0.037	<0.038	<0.041	<0.035	0.034	<0.040
Naphthalene	mg/kg	0.04	0.2	1.8		<0.039	<0.039	0.017	<0.039	<0.038	<0.037	<0.037	<0.038	0.0073	<0.035	<0.038	<0.040
Phenanthrene	mg/kg	1.3	2.5	210		0.0066	0.017	0.26	0.0066	0.24	0.099	0.042	0.02	0.047	0.023	0.049	0.0085
Pyrene	mg/kg	1.9	3.0	2300		0.013	0.057	0.19	0.82	0.32	0.1	0.12	0.06	0.035	0.052	0.1	0.023
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.20	<0.20	<0.21	<0.20	<0.19	<0.19	<0.19	<0.19	<0.21	<0.18	<0.19	<0.20
Butylbenzylphthalate	mg/kg	---	---	930		<0.20	<0.20	<0.21	<0.20	<0.19	<0.19	<0.19	<0.19	<0.21	<0.18	<0.19	<0.20
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.039	<0.039	0.016	<0.039	<0.038	<0.037	<0.037	<0.038	0.015	<0.035	<0.038	<0.040
<b>Inorganic Analytical Parameters</b>																	
Arsenic	mg/kg	---	13	11.3		11.0	9.5	13.0	11.0	7.4	7.4	13.0	6.3	7.6	5.2	11.0	8.1
Barium	mg/kg	---	110	1500		100	71	72	60	81	63	55	54	95	43	95	78
Cadmium	mg/kg	---	0.6	5.2		0.29	0.26	0.23	0.33	0.52	0.47	0.47	0.35	0.36	0.35	0.58	0.32
Chromium, total	mg/kg	---	16.2	21		19	16	25	21	22	21	19	15	22	18	25	26
Lead	mg/kg	---	36	107		23	21	21	20	77	11	12	53	31	9.8	29	17
Mercury	mg/kg	---	0.06	0.1		0.029	0.04	0.058	0.032	0.028	0.023	0.031	0.018	0.016	0.028	0.039	0.035
Selenium	mg/kg	---	0.48	1.3		1.4	1	2	<0.58	<0.58	<0.58	<0.57	<0.55	<0.59	<0.53	<0.57	<0.60
Silver	mg/kg	---	0.55	4.4		<0.30	0.077	0.1	<0.29	<0.29	<0.29	<0.29	<0.27	<0.29	<0.27	0.091	<0.30
Antimony	mg/kg	---	4.0	5		0.59	0.44	0.61	0.5	0.27	0.37	<1.1	0.41	<1.2	<1.1	0.47	0.44
Beryllium	mg/kg	---	0.59	22		0.84	0.67	0.93	0.82	0.83	0.77	0.73	0.58	0.85	0.66	0.85	0.98
Calcium	mg/kg	---	9,300	---		9200	19000	2800	31000	17000	54000	57000	95000	25000	93000	20000	8300
Cobalt	mg/kg	---	8.9	20		8.6	8	13	14	9.2	11	9.6	6.5	10	8.4	13	14
Copper	mg/kg	---	19.6	2900		20	19	25	32	24	23	25	18	19	20	27	22
Cyanide	mg/kg	---	0.51	---		<0.58	<0.58	<0.67	<0.57	<0.57	<0.58	<0.57	<0.56	<0.61	<0.54	<0.57	<0.60
Iron	mg/kg	---	15,900	15000		21000	20000	31000	24000	23000	22000	24000	16000	21000	17000	28000	25000
Magnesium	mg/kg	---	4,820	325000		7300	13000	4500	21000	12000	28000	31000	48000	17000	44000	16000	7900
Manganese	mg/kg	---	636	630		310	400	390	420	450	410	450	450	480	400	950	580
Nickel	mg/kg	---	18	100		22	19	27	30	22	26	25	16	22	22	31	27



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-7-B45 (0-6)	2618-7-B45 (6-13)	2618-7-B48 (0-2)	2618-7-B49 (0-2)	2618-7-B50 (0-2)	2618-7-B50 DUP (0-2)	2618-7-B54 (0-2)	2618-7-B55 (0-2)	2618-7-B56 (0-2)	2618-7-B58 (0-2)	2618-7-B59 (0-2)	2618-7-B60 (0-2)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/03/2015	09/02/2015	09/02/2015
<b>Volatile Organic Analytical Parameters</b>																	
Acetone	mg/kg	---	---	25		<0.018	<0.018	<0.018	<0.021	<0.017	<0.018	<0.020	<0.020	<0.022	<0.023	0.029	<0.019
2-Butanone	mg/kg	---	---	17		<0.0045	<0.0044	<0.0045	<0.0053	<0.0043	<0.0046	<0.0050	<0.0050	<0.0056	<0.0057	<0.0052	<0.0048
<b>Semivolatile Organic Analytical Parameters</b>																	
Acenaphthene	mg/kg	0.09	0.13	570		<0.038	<0.036	<0.038	<0.040	0.029	0.0087	<0.041	<0.037	<0.042	<0.040	<0.039	<0.039
Acenaphthylene	mg/kg	0.03	0.07	85		<0.038	<0.036	<0.038	<0.040	<0.039	<0.037	<0.041	<0.037	<0.042	<0.040	<0.039	<0.039
Anthracene	mg/kg	0.25	0.4	12000		<0.038	<0.036	<0.038	0.035	0.16	0.048	0.024	<0.037	<0.042	<0.040	<0.039	<0.039
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	<0.036	<0.038	0.26	0.53	0.19	0.082	<0.037	<0.042	0.037	0.016	0.011
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	<0.036	<0.038	0.31	0.5	0.2	0.081	<0.037	<0.042	0.039	0.017	0.012
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	<0.036	<0.038	0.59	0.78	0.3	0.14	<0.037	<0.042	0.073	0.03	0.025
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.038	<0.036	<0.038	0.17	0.18	0.072	0.036	<0.037	<0.042	0.018	<0.039	<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	<0.036	<0.038	0.23	0.35	0.13	0.056	<0.037	<0.042	0.028	<0.039	<0.039
Chrysene	mg/kg	1.2	2.7	88		<0.038	<0.036	<0.038	0.32	0.53	0.19	0.1	<0.037	<0.042	0.052	0.025	0.019
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.036	<0.038	0.037	0.049	0.019	<0.041	<0.037	<0.042	<0.040	<0.039	<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038	<0.036	<0.038	0.54	1	0.35	0.15	<0.037	0.0086	0.074	0.025	0.023
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.036	<0.038	0.0085	0.043	0.016	0.008	<0.037	<0.042	<0.040	<0.039	<0.039
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.038	<0.036	<0.038	0.18	0.2	0.083	0.039	<0.037	<0.042	0.019	0.01	<0.039
Naphthalene	mg/kg	0.04	0.2	1.8		<0.038	<0.036	<0.038	<0.040	0.0087	<0.037	<0.041	<0.037	<0.042	<0.040	<0.039	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	<0.036	<0.038	0.19	0.5	0.15	0.1	<0.037	<0.042	0.043	0.01	0.01
Pyrene	mg/kg	1.9	3.0	2300		<0.038	<0.036	<0.038	0.59	1.4	0.33	0.21	<0.037	<0.042	0.079	0.023	0.02
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.18	<0.19	<0.20	0.15	<0.19	<0.21	<0.19	<0.21	<0.20	<0.20	0.22
Butylbenzylphthalate	mg/kg	---	---	930		<0.19	<0.18	<0.19	<0.20	<0.20	<0.19	<0.21	<0.19	<0.21	<0.20	<0.20	<0.20
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.038	<0.036	<0.038	<0.040	0.0093	<0.037	<0.041	<0.037	<0.042	<0.040	<0.039	<0.039
<b>Inorganic Analytical Parameters</b>																	
Arsenic	mg/kg	---	13	11.3		5.7	7.3	5.6	6.7	7.5	6.1	9.1	5.7	9.6	11.0	11.0	9.6
Barium	mg/kg	---	110	1500		37	17	49	71	35	46	88	41	130	80	73	60
Cadmium	mg/kg	---	0.6	5.2		0.19	0.23	0.23	0.34	0.21	0.3	0.71	0.21	0.23	0.43	0.4	0.35
Chromium, total	mg/kg	---	16.2	21		21	10	21	22	14	17	21	18	18	21	22	19
Lead	mg/kg	---	36	107		8.5	8.2	9.5	22	17	19	130	14	16	36	22	14
Mercury	mg/kg	---	0.06	0.1		0.015	0.017	0.028	0.0081	0.019	0.018	0.046	0.018	0.049	0.042	0.05	0.042
Selenium	mg/kg	---	0.48	1.3		0.54	1.3	0.7	1.1	0.75	0.52	1.1	0.6	1.1	0.31	<0.59	<0.60
Silver	mg/kg	---	0.55	4.4		0.078	<1.4	<0.28	<0.30	0.069	0.1	0.32	<0.28	0.091	<0.29	0.07	<0.30
Antimony	mg/kg	---	4.0	5		0.54	<5.4	<1.1	0.46	0.31	0.35	0.44	0.31	0.42	0.39	0.46	<1.2
Beryllium	mg/kg	---	0.59	22		0.64	0.36	0.81	0.83	0.6	0.64	0.78	0.67	0.77	0.85	0.85	0.73
Calcium	mg/kg	---	9,300	---		74000	140000	83000	18000	53000	77000	34000	75000	1800	24000	21000	43000
Cobalt	mg/kg	---	8.9	20		9.1	6.8	9.4	9.9	6.5	9.2	11	8.8	9.6	11	12	9.9
Copper	mg/kg	---	19.6	2900		17	16	20	24	20	18	26	19	22	26	28	23
Cyanide	mg/kg	---	0.51	---		<0.53	<0.53	<0.59	<0.59	<0.53	<0.55	<0.58	<0.55	<0.61	<0.58	<0.57	<0.60
Iron	mg/kg	---	15,900	15000		16000	13000	19000	20000	16000	18000	22000	18000	22000	25000	26000	21000
Magnesium	mg/kg	---	4,820	325000		34000	79000	34000	12000	33000	35000	23000	35000	3500	17000	15000	27000
Manganese	mg/kg	---	636	630		360	410	430	250	230	570	880	410	590	630	570	540
Nickel	mg/kg	---	18	100		25	17	27	23	17	22	25	25	29	25	29	25





Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-7-B63 (0-2)	2618-7-B67 (0-2)	2618-7-B68 (0-2)	2618-7-B69 (0-2)	2618-7-B70 (0-2)	2618-7-B79 (0-2)	2618-7-B83 (0-2)	2618-7-B88 (0-2)	2618-7-B90 (0-2)	2618-7-B91 (0-2)	2618-7-B92 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/02/2015	09/02/2015	09/02/2015	09/02/2015	09/02/2015	09/02/2015	09/02/2015	09/04/2015	09/03/2015	09/03/2015	09/03/2015
<b>Volatile Organic Analytical Parameters</b>																
Acetone	mg/kg	---	---	25		<0.019	<0.018	<0.017	<0.018	<0.034	<0.021	<0.019	0.026	<0.019	<0.018	<0.020
2-Butanone	mg/kg	---	---	17		<0.0047	<0.0045	<0.0043	<0.0044	<0.0084	<0.0052	<0.0048	<0.0052	<0.0048	<0.0045	<0.0050
<b>Semivolatile Organic Analytical Parameters</b>																
Acenaphthene	mg/kg	0.09	0.13	570		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	<0.039	<0.039	<0.038	<0.037
Acenaphthylene	mg/kg	0.03	0.07	85		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	<0.039	<0.039	<0.038	<0.037
Anthracene	mg/kg	0.25	0.4	12000		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	0.018	<0.039	<0.038	<0.037
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.029	0.0064	0.0073	<0.037	<0.043	0.026	0.019	0.12	<0.039	<0.038	<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.035	<0.036	<0.038	<0.037	<0.043	0.033	0.022	0.14	<0.039	<0.038	<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.068	<0.036	<0.038	0.011	<0.043	0.071	0.039	0.24	<0.039	<0.038	<0.037
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.013	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	0.063	<0.039	<0.038	<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.022	<0.036	<0.038	<0.037	<0.043	0.02	0.012	0.098	<0.039	<0.038	<0.037
Chrysene	mg/kg	1.2	2.7	88		0.048	0.036	0.039	<0.037	<0.043	0.044	0.024	0.14	<0.039	<0.038	<0.037
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	0.018	<0.039	<0.038	<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		0.061	0.011	0.012	0.0082	<0.043	0.06	0.039	0.27	<0.039	<0.038	<0.037
Fluorene	mg/kg	0.1	0.18	560		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	<0.039	<0.039	<0.038	<0.037
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	0.07	<0.039	<0.038	<0.037
Naphthalene	mg/kg	0.04	0.2	1.8		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	<0.039	<0.039	<0.038	<0.037
Phenanthrene	mg/kg	1.3	2.5	210		0.03	0.027	0.029	<0.037	<0.043	0.026	0.018	0.1	<0.039	<0.038	<0.037
Pyrene	mg/kg	1.9	3.0	2300		0.061	0.027	0.027	0.0083	<0.043	0.067	0.035	0.27	<0.039	<0.038	<0.037
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.18	<0.19	<0.19	<0.22	<0.20	<0.19	0.23	<0.20	<0.19	<0.19
Butylbenzylphthalate	mg/kg	---	---	930		<0.19	<0.18	<0.19	<0.19	<0.22	<0.20	<0.19	0.075	<0.20	<0.19	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.037	<0.036	<0.038	<0.037	<0.043	<0.039	<0.038	<0.039	<0.039	<0.038	<0.037
<b>Inorganic Analytical Parameters</b>																
Arsenic	mg/kg	---	13	11.3		6.5	7.3	6.9	7.9	8.9	4.5	5.6	8.0	6.3	4.9	5.9
Barium	mg/kg	---	110	1500		47	34	45	40	62	74	34	76	29	50	29
Cadmium	mg/kg	---	0.6	5.2		0.25	0.32	0.28	0.29	0.64	0.48	0.71	0.26	0.31	0.29	0.19
Chromium, total	mg/kg	---	16.2	21		19	13	18	17	20	15	13	20	18	16	13
Lead	mg/kg	---	36	107		19	13	13	12	90	22	130	18	24	9.5	9.6
Mercury	mg/kg	---	0.06	0.1		0.021	0.026	0.017	0.019	0.043	0.044	0.02	0.029	0.022	0.026	0.019
Selenium	mg/kg	---	0.48	1.3		<0.56	<0.54	<0.55	<0.55	0.42	0.45	<0.58	0.7	0.76	0.59	0.58
Silver	mg/kg	---	0.55	4.4		<0.28	<0.27	<0.27	<0.27	<0.32	<0.30	<0.29	<0.28	0.074	0.079	<0.28
Antimony	mg/kg	---	4.0	5		<1.1	<1.1	0.35	<1.1	<1.3	<1.2	0.51	0.29	0.48	0.46	<1.1
Beryllium	mg/kg	---	0.59	22		0.68	0.46	0.67	0.63	0.74	0.58	0.35	0.76	0.67	0.58	0.48
Calcium	mg/kg	---	9,300	---		46000	95000	90000	52000	32000	24000	110000	45000	76000	74000	76000
Cobalt	mg/kg	---	8.9	20		9.6	8.2	9.2	9.6	8.8	6.4	4.8	11	7.7	7.7	8
Copper	mg/kg	---	19.6	2900		21	24	24	23	28	20	27	22	25	18	18
Cyanide	mg/kg	---	0.51	---		<0.58	<0.52	<0.56	<0.58	<0.64	<0.54	<0.56	<0.57	<0.57	<0.55	<0.57
Iron	mg/kg	---	15,900	15000		19000	16000	19000	20000	22000	13000	12000	21000	18000	16000	14000
Magnesium	mg/kg	---	4,820	325000		27000	42000	36000	31000	22000	15000	57000	21000	32000	25000	35000
Manganese	mg/kg	---	636	630		380	350	410	410	390	320	470	390	320	330	330
Nickel	mg/kg	---	18	100		26	23	25	24	25	14	11	27	23	21	20





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

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

Route IL 58 Road IDOT STA 425+15 to 616+00 [Except as noted on Exhibits #2 through #8] (ISGS Site 2618-7)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

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

Latitude: 42.04574 Longitude: -88.19046  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04574 Longitude: -88.19046

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B93, B94, B96 to B98, B102 to B107, B108, B110, B112, B114, B117 to B119, B121, B122, B124 to B129, B131 to B140, B142 to B149, B151 to B154, B157, B159 and B160 were sampled adjacent to ISGS Site No 2618-7. See Exhibits 2 through 8A and Table 13 of the Preliminary Site Investigation Report prepared by Terracon dated Dec 16, 2015.

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

TestAmerica Lab Report No J100741, J100826, J100833, J100839, J100873, J100874, J100875  
Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

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

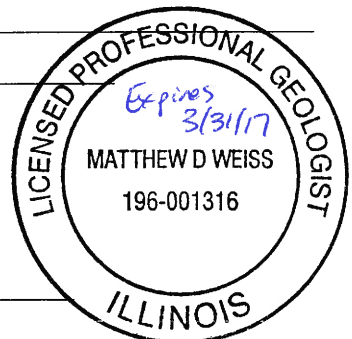
I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental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

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

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

Matt Weiss  
 Printed Name:  
[Signature]  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

12/16/15  
 Date:



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













Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-7-B127 (0-2)	2618-7-B128 (0-2)	2618-7-B129 (0-2)	2618-7-B131 (0-2)	2618-7-B132 (0-2)	2618-7-B133 (0-2)	2618-7-B134 (0-2)	2618-7-B135 (0-2)	2618-7-B136 (0-2)	2618-7-B137 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
		mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015
		Chicago	MSAs												
<b>Inorganic Analytical Parameters (SPLP)</b>															
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.075	0.089	0.11	0.1	0.11	<0.050	0.014	<0.050	0.022	0.029
Barium,SPLP	mg/L	---	---	---		0.81	0.53	0.82	0.92	0.82	0.28	0.67	0.37	0.54	0.64
Beryllium,SPLP	mg/L	---	---	---		0.0087	0.0059	0.0065	0.0072	0.0068	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		62	32	44	45	44	29	39	31	49	51
Chromium,SPLP	mg/L	---	---	---		0.21	0.14	0.14	0.16	0.14	<0.025	0.014	<0.025	0.062	0.055
Cobalt,SPLP	mg/L	---	---	---		0.067	0.076	0.098	0.068	0.074	<0.025	0.017	<0.025	0.023	0.034
Copper,SPLP	mg/L	---	---	---		0.23	0.21	0.26	0.2	0.21	0.014	0.092	0.044	0.076	0.096
Iron,SPLP	mg/L	---	---	---		200	190	220	230	230	3.8	20	8.7	56	57
Lead,SPLP	mg/L	---	---	---		0.17	0.24	0.21	0.21	0.32	0.021	0.11	0.073	0.093	0.55
Magnesium,SPLP	mg/L	---	---	---		59	33	36	35	32	7.4	12	9.3	28	23
Manganese,SPLP	mg/L	---	---	---		1.3	2.1	2.7	1.8	1.8	0.11	1.4	0.66	0.66	1.3
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00024	0.00049	<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.24	0.2	0.25	0.21	0.22	<0.025	0.028	0.016	0.071	0.08
Potassium,SPLP	mg/L	---	---	---		45	26	18	17	18	2.9	4.7	3.4	15	14
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---	---
Thallium,SPLP	mg/L	---	---	---		0.0038	0.0052	0.0047	0.0037	0.004	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.22	0.19	0.19	0.21	0.2	0.012	0.045	0.015	0.088	0.096
Zinc,SPLP	mg/L	---	---	---		0.56	0.58	0.82	0.79	0.89	0.22	0.19	0.19	0.27	0.37
Cyanide,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---	---
<b>Inorganic Analytical Parameters (TCLP)</b>															
Arsenic,TCLP	mg/L	---	---	---		<0.050	0.014	<0.050	<0.050	<0.050	<0.050	0.013	0.01	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.55	0.68	0.46	0.48	0.45	0.44	0.44	0.38	0.34	0.44
Cadmium,TCLP	mg/L	---	---	---		0.0035	0.0045	<0.0050	<0.0050	<0.0050	<0.0050	0.0025	<0.0050	<0.0050	0.0026
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	0.042	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.014
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	0.021	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		1000	810	320	290	310	360	540	260	680	280
Cobalt,TCLP	mg/L	---	---	---		0.035	0.06	<0.025	<0.025	<0.025	<0.025	0.032	<0.025	0.028	<0.025
Copper,TCLP	mg/L	---	---	---		0.016	<0.025	<0.025	0.012	0.01	<0.025	<0.025	<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---	---
Iron,TCLP	mg/L	---	---	---		<0.20	1.1	<0.20	<0.20	<0.20	<0.20	0.54	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		300	370	83	97	100	84	200	61	220	34
Manganese,TCLP	mg/L	---	---	---		7.3	12	4.5	0.078	0.46	0.27	11	3.6	5.5	4.1
Nickel,TCLP	mg/L	---	---	---		0.034	0.052	<0.025	<0.025	<0.025	<0.025	0.029	<0.025	0.017	<0.025
Potassium,TCLP	mg/L	---	---	---		2.1	1.9	2.3	2.5	2.6	3.6	1.8	1.8	0.89	2.3
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.18	0.71	0.062	0.2	0.25	0.045	0.14	0.045	<0.10	0.081





Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-7-B151 (0-2)	2618-7-B152 (0-2)	2618-7-B153 (0-2)	2618-7-B154 (0-2)	2618-7-B157 (0-2)	2618-7-B159 (0-6)	2618-7-B159 (6-13)	2618-7-B160 (0-6)	2618-7-B160 (6-13)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-6)	(6-13)	(0-6)	(6-13)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/03/2015
<b>Volatile Organic Analytical Parameters</b>														
Acetone	mg/kg	---	---	25		<0.024	0.021	<0.022	0.034	<0.021	<0.019	<0.019	<0.025	<0.021
2-Butanone	mg/kg	---	---	17		<0.0061	<0.0048	<0.0055	0.0085	<0.0053	<0.0048	<0.0046	<0.0062	<0.0052
<b>Semivolatile Organic Analytical Parameters</b>														
Acenaphthene	mg/kg	0.09	0.13	570		<0.040	0.012	<0.038	0.0088	0.03	<0.037	<0.037	<0.039	<0.037
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	0.0079	<0.038	<0.036	0.011	<0.037	<0.037	<0.039	<0.037
Anthracene	mg/kg	0.25	0.4	12000		<0.040	0.022	<0.038	0.026	0.13	<0.037	<0.037	<0.039	<0.037
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.040	0.2	0.029	0.22	0.46	<0.037	<0.037	0.035	<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.040	0.22	0.033	0.28	0.46	<0.037	<0.037	0.034	<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.040	0.45	0.057	0.42	0.8	<0.037	<0.037	0.053	<0.037
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.040	0.12	<0.038	0.31	0.36	<0.037	<0.037	0.016	<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.040	0.14	0.025	0.19	0.3	<0.037	<0.037	0.022	<0.037
Chrysene	mg/kg	1.2	2.7	88		<0.040	0.31	0.041	0.31	0.55	<0.037	<0.037	0.042	0.011
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	0.043	<0.038	0.063	0.079	<0.037	<0.037	<0.039	<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		<0.040	0.29	0.055	0.31	0.77	<0.037	<0.037	0.083	<0.037
Fluorene	mg/kg	0.1	0.18	560		<0.040	0.013	<0.038	0.01	0.041	<0.037	<0.037	<0.039	<0.037
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.040	0.12	<0.038	0.23	0.36	<0.037	<0.037	0.02	<0.037
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	0.0092	<0.038	<0.036	<0.039	<0.037	<0.037	<0.039	<0.037
Phenanthrene	mg/kg	1.3	2.5	210		<0.040	0.19	0.034	0.21	0.64	<0.037	<0.037	0.042	0.018
Pyrene	mg/kg	1.9	3.0	2300		<0.040	0.5	0.056	0.8	1.6	<0.037	<0.037	0.064	0.01
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.20	<0.19	<0.19	0.5	0.11	<0.19	<0.19	<0.20	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.040	0.016	<0.038	0.0082	0.0088	<0.037	<0.037	<0.039	<0.037
<b>Inorganic Analytical Parameters</b>														
Arsenic	mg/kg	---	13	11.3		7.1	8	10	9.4	10	5.4	5.2	8.1	5
Barium	mg/kg	---	110	1500		140	110	62	46	68	46	39	96	22
Cadmium	mg/kg	---	0.6	5.2		0.32	0.52	0.85	0.53	0.52	0.16	0.18	0.52	0.37
Chromium, total	mg/kg	---	16.2	21		14	12	10	15	13	17	18	25	18
Lead	mg/kg	---	36	107		17	55	220	77	46	11	12	25	9
Mercury	mg/kg	---	0.06	0.1		0.024	0.055	0.032	0.036	0.019	0.016	0.017	0.046	0.016
Selenium	mg/kg	---	0.48	1.3		0.79	0.41	0.67	0.53	0.58	<0.57	<0.57	0.51	<0.56
Silver	mg/kg	---	0.55	4.4		<0.30	<0.31	<0.28	<0.27	<0.29	<0.28	<0.28	<0.29	<0.28
Antimony	mg/kg	---	4.0	5		0.32	0.51	0.85	0.47	0.47	0.37	0.24	0.5	0.24
Beryllium	mg/kg	---	0.59	22		0.61	0.49	0.44	0.51	0.49	0.66	0.64	1	0.66
Calcium	mg/kg	---	9,300	---		3300	13000	67000	72000	50000	79000	96000	4700	80000
Cobalt	mg/kg	---	8.9	20		11	6.6	7.4	10	9	11	13	15	5.2
Copper	mg/kg	---	19.6	2900		12	15	19	23	24	20	20	21	20
Cyanide	mg/kg	---	0.51	---		<0.63	<0.60	<0.60	<0.55	<0.62	<0.57	<0.56	<0.59	<0.55
Iron	mg/kg	---	15,900	15000		17000	16000	17000	19000	20000	17000	17000	24000	16000
Magnesium	mg/kg	---	4,820	325000		2200	7100	35000	36000	28000	39000	35000	5300	41000
Manganese	mg/kg	---	636	630		840	580	500	490	360	310	360	810	330
Nickel	mg/kg	---	18	100		16	14	17	27	21	29	33	27	17
Potassium	mg/kg	---	1,268	---		1000	930	1100	1600	1200	2500	2800	2600	3800
Sodium	mg/kg	---	130	---		1900	2400	2100	1400	1900	380	320	110	170
Thallium	mg/kg	---	0.32	2.6		<0.59	<0.61	<0.57	<0.53	<0.59	0.35	<0.57	1.7	0.94
Vanadium	mg/kg	---	25.2	550		28	22	19	19	19	19	19	32	19
Zinc	mg/kg	---	95	5100		52	70	100	83	81	45	48	60	34
pH			6.25	9		7.89	8.46	8.34	8.72	8.52	8.1	8.42	7.9	8.1

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-7-B151 (0-2)	2618-7-B152 (0-2)	2618-7-B153 (0-2)	2618-7-B154 (0-2)	2618-7-B157 (0-2)	2618-7-B159 (0-6)	2618-7-B159 (6-13)	2618-7-B160 (0-6)	2618-7-B160 (6-13)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-6)	(6-13)	(0-6)	(6-13)
		mg/kg pH 6.25-9.0	Date Collected	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/04/2015	09/03/2015	09/03/2015
		Chicago	MSAs											
<b>Inorganic Analytical Parameters (SPLP)</b>														
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050	0.073	0.025	<0.050	0.018	<0.050	0.027	<0.050	<0.050
Barium,SPLP	mg/L	---	---	---		0.33	0.69	0.35	0.23	0.31	0.17	0.35	0.28	0.076
Beryllium,SPLP	mg/L	---	---	---		<0.0040	0.0062	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0022	<0.0050
Calcium,SPLP	mg/L	---	---	---		15	23	10	23	25	20	68	13	13
Chromium,SPLP	mg/L	---	---	---		0.04	0.15	0.062	0.028	0.057	<0.025	0.067	0.057	<0.025
Cobalt,SPLP	mg/L	---	---	---		<0.025	0.057	0.017	0.011	0.015	<0.025	0.019	<0.025	<0.025
Copper,SPLP	mg/L	---	---	---		0.032	0.19	0.069	0.052	0.058	0.015	0.1	0.058	0.012
Iron,SPLP	mg/L	---	---	---		31	180	60	24	65	2.8	71	44	1.7
Lead,SPLP	mg/L	---	---	---		0.021	1.1	0.19	0.36	0.079	<0.0075	0.038	0.048	<0.0075
Magnesium,SPLP	mg/L	---	---	---		7.7	29	10	12	14	7.7	34	13	5.2
Manganese,SPLP	mg/L	---	---	---		0.81	2.2	1.2	0.49	0.47	0.038	0.38	0.3	0.012
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.026	0.18	0.051	0.032	0.039	<0.025	0.091	0.052	<0.025
Potassium,SPLP	mg/L	---	---	---		5.2	21	7.4	6.6	8.1	2.5	13	11	2.5
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---
Thallium,SPLP	mg/L	---	---	---		<0.0020	0.0033	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.064	0.22	0.12	0.041	0.084	<0.025	0.063	0.086	<0.025
Zinc,SPLP	mg/L	---	---	---		0.21	0.74	0.37	0.19	0.25	0.33	0.28	3.1	0.079
Cyanide,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---
<b>Inorganic Analytical Parameters (TCLP)</b>														
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.4	0.61	0.55	0.5	0.5	0.4	0.34	0.21	0.31
Cadmium,TCLP	mg/L	---	---	---		<0.0050	0.0021	<0.0050	0.0032	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	0.072	<0.0075	0.074	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		49	210	230	270	310	370	480	88	480
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.03	<0.025	0.012	<0.025	<0.025	<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.011
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---
Iron,TCLP	mg/L	---	---	---		0.47	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		11	96	120	120	120	120	64	31	74
Manganese,TCLP	mg/L	---	---	---		0.04	8.5	0.77	4.2	0.17	0.036	0.53	0.018	1.1
Nickel,TCLP	mg/L	---	---	---		<0.025	0.016	<0.025	0.021	<0.025	<0.025	<0.025	<0.025	0.014
Potassium,TCLP	mg/L	---	---	---		2.8	4.9	3.1	4.4	5.3	2.3	2.7	2.6	5.9
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.42	0.24	0.14	0.19	0.12	0.11	0.11	0.65	0.047

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100826-1  
Client Project/Site: IDOT - Hoffman Estates - WO 08

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

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/17/2015 10:50:56 AM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Job ID: 500-100826-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100826-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 2.3° C, 2.5° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.3° C, 3.6° C and 4.0° C.

#### GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample: 2618-7-B27 (0-2) (500-100826-19). The sample shows evidence of matrix interference and was re-analyzed. The best data were reported.

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

#### GC/MS Semi VOA

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: 2618-7-B26 (0-2) (500-100826-18), 2618-7-B28 (0-2) (500-100826-20), 2618-7-B29 (0-2) (500-100826-21), 2618-7-B30 (0-2) (500-100826-22), 2618-7-B32 (0-2) (500-100826-24), 2618-7-B33 (0-2) (500-100826-25) and 2618-7-B39 (0-2) (500-100826-31). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: 2618-7-B26 (0-2) (500-100826-18), 2618-7-B27 (0-2) (500-100826-19), 2618-7-B28 (0-2) (500-100826-20), 2618-7-B29 (0-2) (500-100826-21), 2618-7-B30 (0-2) (500-100826-22), 2618-7-B32 (0-2) (500-100826-24), 2618-7-B33 (0-2) (500-100826-25), 2618-7-B34 (0-2) (500-100826-26), 2618-7-B35 (0-2) (500-100826-27), 2618-7-B37 (0-2) (500-100826-29), 2618-7-B38 (0-2) (500-100826-30), 2618-7-B39 (0-2) (500-100826-31) and 2618-7-B20 DUP (0-2) (500-100826-38). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

#### Metals

Method(s) 6010B: The method blank for preparation batch 500-303340 and analytical batch 500-303498 contained Calcium and Magnesium above the reporting limit (RL). Associated samples 2618-7-B08 (0-2) (500-100826-1), 2618-7-B10 (0-2) (500-100826-2), 2618-7-B11 (0-2) (500-100826-3), 2618-7-B12 (0-2) (500-100826-4), 2618-7-B13 (0-2) (500-100826-5), 2618-7-B14 (0-2) (500-100826-6), 2618-7-B15 (0-2) (500-100826-7), 2618-7-B16 (0-2) (500-100826-8), 2618-7-B17 (0-2) (500-100826-9), 2618-7-B18 (0-2) (500-100826-10), 2618-7-B19 (0-2) (500-100826-11), 2618-7-B20 (0-2) (500-100826-12), 2618-7-B21 (0-2) (500-100826-13), 2618-7-B22 (0-2) (500-100826-14), 2618-7-B23 (0-2) (500-100826-15), 2618-7-B24 (0-2) (500-100826-16), 2618-7-B25 (0-2) (500-100826-17), 2618-7-B26 (0-2) (500-100826-18), 2618-7-B27 (0-2) (500-100826-19) and 2618-7-B28 (0-2) (500-100826-20) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The laboratory blank for preparation batch 500-303601, 500-303602 and 500-303731 and analytical batch 500-304083 contained Calcium above the reporting limit (RL). Associated samples 2618-7-B39 (0-2) (500-100826-31), 2618-7-B40 (0-2) (500-100826-32), 2618-7-B42 (0-2) (500-100826-34), 2618-7-B43 (0-2) (500-100826-35), 2618-7-B44 (0-2) (500-100826-36) and 2618-7-B20 DUP (0-2) (500-100826-38) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the laboratory blank.

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.015	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.19		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.36		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.094	F1	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) pthalate	0.29	F1	0.20	0.073	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.26		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.032	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.27		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0074	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10	F1	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.32		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.83	J F1	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15	F1	0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	27000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	82	B	0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B F2	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	42000	B F2	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	590	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.99		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.76		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	76	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	F1	30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	270		6.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.73	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.034	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.032	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.61	B F1	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	24	B F1	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.097		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	94		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.54		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	19	B F1	2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B08 (0-2) (Continued)

## Lab Sample ID: 500-100826-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.85	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	12	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.58	B F1	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0024		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.074		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.87		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B10 (0-2)

## Lab Sample ID: 500-100826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.040		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.042		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.085		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J	0.19	0.071	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.063		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.069		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.033	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.073		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.96	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.73		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	47		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	590	B	0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	380	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.95		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.81		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	140	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		6.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0083		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B10 (0-2) (Continued)

## Lab Sample ID: 500-100826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.10	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.062		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.73	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0063		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	34	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.40		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	30	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	25	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	2.7	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0035		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.044		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B11 (0-2)

## Lab Sample ID: 500-100826-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.14	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.54	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.88		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13	B	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	470	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.097	J	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	58	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	3600		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	360		6.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B11 (0-2) (Continued)**

**Lab Sample ID: 500-100826-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.095		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.82	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0083		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	40	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.074		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.091		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	42	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.64	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0056		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.028		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.03		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.033	J	0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.011	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J	0.19	0.071	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.025	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.028	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.031	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.26	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	47	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	35000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	410	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.95		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B12 (0-2) (Continued)**

**Lab Sample ID: 500-100826-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.089	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	63	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.020	J B	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	56		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	2.2	B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.54	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0045		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	31	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	26	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.74	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0027		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.045		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	9.18		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.018	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.18	J	0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.036	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.036	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.54	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B13 (0-2) (Continued)**

**Lab Sample ID: 500-100826-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.84		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	31000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	22	B	0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	530	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.3		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.15	J	0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		6.0	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.074		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.60	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0067		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	22	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.65	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0049		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.061		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.023	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.044		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B14 (0-2) (Continued)**

**Lab Sample ID: 500-100826-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.016	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.17	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.031	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.035	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.88		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	23		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	26000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	50	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	570	B	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.3		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	74	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		6.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.098		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.80	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0087		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	28	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	41	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.79	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0063		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.063		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B14 (0-2) (Continued)

## Lab Sample ID: 500-100826-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.17		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B15 (0-2)

## Lab Sample ID: 500-100826-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0072	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0083	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.89		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	39000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	440	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.98		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	53	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2600		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		6.0	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.86	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0095		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	29	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.097		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B15 (0-2) (Continued)

## Lab Sample ID: 500-100826-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.79	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0069		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.057		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.16		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B16 (0-2)

## Lab Sample ID: 500-100826-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.038	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.042		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.072		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.20		0.20	0.073	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.057		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.066		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.081		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.52	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.57		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	160	B	0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	570	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.091	J	0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	87	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		6.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.25	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.43	J B	0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B16 (0-2) (Continued)

## Lab Sample ID: 500-100826-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0048		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	20	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.26		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	22	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	23	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.2	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0029		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.059		0.019	0.0068	mg/Kg	1	✳	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B17 (0-2)

## Lab Sample ID: 500-100826-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.011	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.21		0.20	0.071	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.020	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.022	J	0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.013	J	0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.029	J	0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.37	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.7		0.59	0.27	mg/Kg	1	✳	6010B	Total/NA
Barium	81		0.59	0.11	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.75		0.23	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21		0.12	0.034	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.59	0.10	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.4		0.29	0.066	mg/Kg	1	✳	6010B	Total/NA
Copper	17		0.59	0.13	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	12	4.5	mg/Kg	1	✳	6010B	Total/NA
Lead	15	B	0.29	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	17000	B	5.9	2.4	mg/Kg	1	✳	6010B	Total/NA
Calcium	25000	B	12	3.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	610	B	0.59	0.12	mg/Kg	1	✳	6010B	Total/NA
Nickel	18		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.98		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Silver	0.077	J	0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.60		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.29	0.086	mg/Kg	1	✳	6010B	Total/NA
Zinc	48	B	1.2	0.37	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	2300		59	7.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B17 (0-2) (Continued)

## Lab Sample ID: 500-100826-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	210		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.035		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	93		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.56	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0049		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	21	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.046		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.24		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.44	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.057		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.03		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B18 (0-2)

## Lab Sample ID: 500-100826-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.13	J	0.19	0.068	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13	B	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	710	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.73		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.91		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B18 (0-2) (Continued)

## Lab Sample ID: 500-100826-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	26		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	49	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	240		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.059		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.54	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0055		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	55	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.055		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	38	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	27	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	4.1	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0036		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.032		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.84		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B19 (0-2)

## Lab Sample ID: 500-100826-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.038	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.039		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.066		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.18	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.066		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.036	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.080		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B19 (0-2) (Continued)**

**Lab Sample ID: 500-100826-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.47		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	82	B	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	440	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.88		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	66	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	100		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.024	J B	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.5		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.089		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.83	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0090		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	23	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.33		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	38	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	2.2	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0057		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.035		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.84		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 (0-2) (Continued)**

**Lab Sample ID: 500-100826-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.025	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.010	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.9		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.84		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.41		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.3		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	99	B	0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	310	B	0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.93		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	75	B	1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		6.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.65		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.31	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.099		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.78	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0089		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	29	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.074		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.33		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.89	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0066		0.0020	0.0020	mg/L	1		6020A	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B20 (0-2) (Continued)

## Lab Sample ID: 500-100826-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.042		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	8.54		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B21 (0-2)

## Lab Sample ID: 500-100826-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.021	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.065		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.061		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.19	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.085		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.058		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.019	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.31		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.2		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.58		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	93	B	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	450	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.92		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.74		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	81	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.088		0.050	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B21 (0-2) (Continued)

## Lab Sample ID: 500-100826-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.88	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0086		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.090		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	38	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.70	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0050		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.031		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.42		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B22 (0-2)

## Lab Sample ID: 500-100826-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0096	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0085	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0092	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	430	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.79		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.11	J	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.90		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	54	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	360		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B22 (0-2) (Continued)

## Lab Sample ID: 500-100826-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.064		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.54	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	37	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.045		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	33	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.1	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0050		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.67		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B23 (0-2)

## Lab Sample ID: 500-100826-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	25000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	49	B	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	41000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	490	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.83		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.087	J	0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	59	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		6.0	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B23 (0-2) (Continued)

## Lab Sample ID: 500-100826-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.084		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.74	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0075		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	200		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	35	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	27	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.66	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0057		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.032		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.54		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B24 (0-2)

## Lab Sample ID: 500-100826-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0071	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0066	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.59	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.84		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	23	B	0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7300	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	9200	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	310	B	0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.4		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.87		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B24 (0-2) (Continued)**

**Lab Sample ID: 500-100826-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	56	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.013	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.81		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	130		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.014	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.6		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	62		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.0	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0081		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	26	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.081		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	220		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	23	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.6	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.029		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.021	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.041		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.040		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.057	F1	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B25 (0-2) (Continued)**

**Lab Sample ID: 500-100826-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	16		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.0		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	21	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	400	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.077	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	50	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	89		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.57	B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.097		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.2	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.010		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	48	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.095		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	280		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.79	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0050		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.040		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.61		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.21		0.19	0.025	mg/Kg	5	☼	8270D	Total/NA
Anthracene	0.16	J	0.19	0.032	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	0.83		0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	0.76		0.19	0.037	mg/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B26 (0-2) (Continued)**

**Lab Sample ID: 500-100826-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[b]fluoranthene	→ 1.2		0.19	0.041	mg/Kg	5	✳	8270D	Total/NA	
Benzo[g,h,i]perylene	0.18	J	0.19	0.061	mg/Kg	5	✳	8270D	Total/NA	
Benzo[k]fluoranthene	0.52		0.19	0.056	mg/Kg	5	✳	8270D	Total/NA	
Chrysene	0.84		0.19	0.052	mg/Kg	5	✳	8270D	Total/NA	
Dibenz(a,h)anthracene	→ 0.097	J	0.19	0.037	mg/Kg	5	✳	8270D	Total/NA	
Fluoranthene	1.3		0.19	0.035	mg/Kg	5	✳	8270D	Total/NA	
Fluorene	0.046	J	0.19	0.027	mg/Kg	5	✳	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.27		0.19	0.049	mg/Kg	5	✳	8270D	Total/NA	
Phenanthrene	0.38		0.19	0.026	mg/Kg	5	✳	8270D	Total/NA	
Pyrene	1.6		0.19	0.038	mg/Kg	5	✳	8270D	Total/NA	
Antimony	0.40	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA	
Arsenic	7.2		0.58	0.27	mg/Kg	1	✳	6010B	Total/NA	
Barium	100		0.58	0.11	mg/Kg	1	✳	6010B	Total/NA	
Beryllium	0.87		0.23	0.051	mg/Kg	1	✳	6010B	Total/NA	
Cadmium	0.43		0.12	0.034	mg/Kg	1	✳	6010B	Total/NA	
Chromium	21		0.58	0.10	mg/Kg	1	✳	6010B	Total/NA	
Cobalt	7.0		0.29	0.066	mg/Kg	1	✳	6010B	Total/NA	
Copper	22		0.58	0.13	mg/Kg	1	✳	6010B	Total/NA	
Iron	22000	B	12	4.5	mg/Kg	1	✳	6010B	Total/NA	
Lead	26	B	0.29	0.15	mg/Kg	1	✳	6010B	Total/NA	
Magnesium	8200	B	5.8	2.4	mg/Kg	1	✳	6010B	Total/NA	
Calcium	14000	B	12	3.8	mg/Kg	1	✳	6010B	Total/NA	
Manganese	360	B	0.58	0.12	mg/Kg	1	✳	6010B	Total/NA	
Nickel	21		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA	
Selenium	1.4		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA	
Silver	0.084	J	0.29	0.068	mg/Kg	1	✳	6010B	Total/NA	
Thallium	0.81		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA	
Vanadium	30		0.29	0.085	mg/Kg	1	✳	6010B	Total/NA	
Zinc	65	B	1.2	0.37	mg/Kg	1	✳	6010B	Total/NA	
Potassium	2500		29	4.8	mg/Kg	1	✳	6010B	Total/NA	
Sodium	720		58	7.7	mg/Kg	1	✳	6010B	Total/NA	
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	250		6.0	0.50	mg/L	1		6010B	TCLP	
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP	
Arsenic	0.017	J	0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.41	J B	0.50	0.050	mg/L	1		6010B	SPLP East	
Calcium	22	B	6.0	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.075		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.049		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	63		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.040		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	15	B	2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.052		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	13	B	2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B26 (0-2) (Continued)

## Lab Sample ID: 500-100826-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.31	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.047		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B27 (0-2)

## Lab Sample ID: 500-100826-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.26		0.029	0.0057	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.052		0.0074	0.0026	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.022	J	0.042	0.0076	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.014	J	0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.072		0.042	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.080		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.058		0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.089		0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.079		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.060	J	0.21	0.050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.19		0.042	0.0079	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.063		0.042	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.017	J	0.042	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19		0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.61	J	1.3	0.28	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.67	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.67	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.93		0.27	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.13	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.67	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.33	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.67	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	31000	B	13	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	21	B	0.33	0.17	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4500	B	6.7	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	2800	B	13	4.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	390	B	0.67	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.67	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	2.0		0.67	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.33	0.078	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.8		0.67	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35		0.33	0.098	mg/Kg	1	☼	6010B	Total/NA
Zinc	81	B	1.3	0.42	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		33	5.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	3300		67	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	180		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	83		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.5		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B27 (0-2) (Continued)

## Lab Sample ID: 500-100826-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.093		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.1	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0095		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	25	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	260		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	35	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.80	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0044		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.058		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	7.77		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B28 (0-2)

## Lab Sample ID: 500-100826-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.46		0.37	0.063	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	1.2		0.37	0.050	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	1.4		0.37	0.072	mg/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	2.1		0.37	0.081	mg/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.49		0.37	0.12	mg/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.98		0.37	0.11	mg/Kg	10	☼	8270D	Total/NA
Chrysene	1.3		0.37	0.10	mg/Kg	10	☼	8270D	Total/NA
Fluoranthene	2.6		0.37	0.069	mg/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.57		0.37	0.097	mg/Kg	10	☼	8270D	Total/NA
Phenanthrene	1.5		0.37	0.052	mg/Kg	10	☼	8270D	Total/NA
Pyrene	3.4		0.37	0.074	mg/Kg	10	☼	8270D	Total/NA
Antimony	0.43	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	18	B	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	480	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B28 (0-2) (Continued)**

**Lab Sample ID: 500-100826-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.084	J	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	52	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		6.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.013	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	97		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.36	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.042	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.50	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0048		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	29	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.10		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	25	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.90		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.55	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0026		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.039		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.72		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.018	0.0036	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0025	J	0.0046	0.0016	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	1.2		0.20	0.036	mg/Kg	5	☼	8270D	Total/NA
Anthracene	1.9		0.20	0.033	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1.9		0.20	0.027	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1.8		0.20	0.038	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2.7		0.20	0.043	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.56		0.20	0.064	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.1		0.20	0.059	mg/Kg	5	☼	8270D	Total/NA
Carbazole	0.75	J	1.0	0.50	mg/Kg	5	☼	8270D	Total/NA
Chrysene	1.9		0.20	0.054	mg/Kg	5	☼	8270D	Total/NA
Dibenzofuran	0.89	J	1.0	0.23	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	6.6		0.20	0.037	mg/Kg	5	☼	8270D	Total/NA
Fluorene	1.3		0.20	0.028	mg/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B29 (0-2) (Continued)**

**Lab Sample ID: 500-100826-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.65		0.20	0.052	mg/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	0.23		0.20	0.037	mg/Kg	5	☼	8270D	Total/NA
Naphthalene	0.52		0.20	0.031	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	7.3		0.20	0.028	mg/Kg	5	☼	8270D	Total/NA
Pyrene	7.2		0.20	0.039	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.048	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.6		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.016	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.88		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	180		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.8		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.070		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.85		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0070		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.54	B	0.50	0.020	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B29 (0-2) (Continued)

## Lab Sample ID: 500-100826-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Thallium	0.0030		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.00028		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.029		0.018	0.0062	mg/Kg	1		☼	7471B	Total/NA
pH	8.90		0.200	0.200	SU	1			9045D	Total/NA

## Client Sample ID: 2618-7-B30 (0-2)

## Lab Sample ID: 500-100826-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthene	0.32		0.19	0.035	mg/Kg	5		☼	8270D	Total/NA
Acenaphthylene	0.24		0.19	0.026	mg/Kg	5		☼	8270D	Total/NA
Anthracene	0.86		0.19	0.032	mg/Kg	5		☼	8270D	Total/NA
Benzo[a]anthracene	2.8		0.19	0.026	mg/Kg	5		☼	8270D	Total/NA
Benzo[a]pyrene	2.6		0.19	0.038	mg/Kg	5		☼	8270D	Total/NA
Benzo[b]fluoranthene	4.0		0.19	0.042	mg/Kg	5		☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.69		0.19	0.063	mg/Kg	5		☼	8270D	Total/NA
Benzo[k]fluoranthene	1.7		0.19	0.057	mg/Kg	5		☼	8270D	Total/NA
Chrysene	2.8		0.19	0.053	mg/Kg	5		☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.26		0.19	0.038	mg/Kg	5		☼	8270D	Total/NA
Fluoranthene	5.7		0.19	0.036	mg/Kg	5		☼	8270D	Total/NA
Fluorene	0.28		0.19	0.027	mg/Kg	5		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.87		0.19	0.050	mg/Kg	5		☼	8270D	Total/NA
Phenanthrene	2.8		0.19	0.027	mg/Kg	5		☼	8270D	Total/NA
Pyrene	7.3		0.19	0.039	mg/Kg	5		☼	8270D	Total/NA
Antimony	0.36	J	1.1	0.22	mg/Kg	1		☼	6010B	Total/NA
Arsenic	9.3		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	49		0.54	0.098	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.62		0.21	0.047	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.048	J	0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	16		0.54	0.092	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.27	0.061	mg/Kg	1		☼	6010B	Total/NA
Copper	26		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	20000		11	4.1	mg/Kg	1		☼	6010B	Total/NA
Lead	18		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	25000		5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	40000		11	3.5	mg/Kg	1		☼	6010B	Total/NA
Manganese	420		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	27		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.5		0.54	0.26	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.27	0.078	mg/Kg	1		☼	6010B	Total/NA
Zinc	50		1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	2200		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	1800		54	7.1	mg/Kg	1		☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	330		6.0	0.50	mg/L	1			6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1			6010B	TCLP
Copper	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	7.8		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B30 (0-2) (Continued)

## Lab Sample ID: 500-100826-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.10		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.71		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0078		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	40		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.085		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	200		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.73	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0060		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.029		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.23		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B31 (0-2)

## Lab Sample ID: 500-100826-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.033		0.020	0.0038	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0041	J	0.0050	0.0018	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.025	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.011	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.13		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.32	F1 F2	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.37	F1	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.62	F1 F2	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.19	F1	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.37	F1 F2	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.037	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.71	F1 F2	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.054		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.37	F1 F2	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.82	F1 F2	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	4.5	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B31 (0-2) (Continued)**

**Lab Sample ID: 500-100826-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	31000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.6		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.28		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.058		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.68		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	33		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.47	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0030		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.032		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	8.44		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.047	J	0.20	0.033	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.20	0.027	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	0.26		0.20	0.039	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.46		0.20	0.043	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.10	J	0.20	0.065	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.18	J	0.20	0.059	mg/Kg	5	☼	8270D	Total/NA
Chrysene	0.28		0.20	0.055	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	0.41		0.20	0.037	mg/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B32 (0-2) (Continued)**

**Lab Sample ID: 500-100826-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.094	J	0.20	0.052	mg/Kg	5	☼	8270D	Total/NA	
Phenanthrene	0.22		0.20	0.028	mg/Kg	5	☼	8270D	Total/NA	
Pyrene	0.60		0.20	0.040	mg/Kg	5	☼	8270D	Total/NA	
Arsenic	8.0		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA	
Barium	82		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.81		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.40		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA	
Chromium	21		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	10		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA	
Copper	24		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA	
Iron	22000		12	4.6	mg/Kg	1	☼	6010B	Total/NA	
Lead	40		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	24000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA	
Calcium	39000		12	3.8	mg/Kg	1	☼	6010B	Total/NA	
Manganese	570		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA	
Nickel	23		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA	
Thallium	1.4		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	29		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA	
Zinc	55		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA	
Potassium	3200		30	4.8	mg/Kg	1	☼	6010B	Total/NA	
Sodium	2200	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	410		6.0	0.50	mg/L	1		6010B	TCLP	
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP	
Lead	0.0076		0.0075	0.0075	mg/L	1		6010B	TCLP	
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.29		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.62	B	0.50	0.020	mg/L	1		6010B	TCLP	
Arsenic	0.080		0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.82		0.50	0.050	mg/L	1		6010B	SPLP East	
Beryllium	0.0093		0.0040	0.0040	mg/L	1		6010B	SPLP East	
Calcium	65		6.0	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.073		0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.37		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	59		2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.25		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	45		2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East	
Zinc	0.75	B	0.50	0.020	mg/L	1		6010B	SPLP East	
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	SPLP East	
Mercury	0.043		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA	
pH	8.87		0.200	0.200	SU	1		9045D	Total/NA	

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B33 (0-2) (Continued)**

**Lab Sample ID: 500-100826-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.12	J	0.19	0.026	mg/Kg	5	*	*	8270D	Total/NA
Benzo[a]pyrene	0.15	J	0.19	0.038	mg/Kg	5	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.23		0.19	0.042	mg/Kg	5	*	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.082	J	0.19	0.063	mg/Kg	5	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.11	J	0.19	0.057	mg/Kg	5	*	*	8270D	Total/NA
Chrysene	0.15	J	0.19	0.053	mg/Kg	5	*	*	8270D	Total/NA
Fluoranthene	0.21		0.19	0.036	mg/Kg	5	*	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.054	J	0.19	0.050	mg/Kg	5	*	*	8270D	Total/NA
Phenanthrene	0.095	J	0.19	0.027	mg/Kg	5	*	*	8270D	Total/NA
Pyrene	0.32		0.19	0.039	mg/Kg	5	*	*	8270D	Total/NA
Antimony	0.35	J	1.1	0.24	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	7.2		0.57	0.26	mg/Kg	1	*	*	6010B	Total/NA
Barium	84		0.57	0.10	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.79		0.23	0.049	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.70		0.11	0.033	mg/Kg	1	*	*	6010B	Total/NA
Chromium	20		0.57	0.098	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	8.9		0.29	0.064	mg/Kg	1	*	*	6010B	Total/NA
Copper	45		0.57	0.12	mg/Kg	1	*	*	6010B	Total/NA
Iron	20000		11	4.4	mg/Kg	1	*	*	6010B	Total/NA
Lead	58		0.29	0.14	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	16000		5.7	2.3	mg/Kg	1	*	*	6010B	Total/NA
Calcium	27000		11	3.7	mg/Kg	1	*	*	6010B	Total/NA
Manganese	400		0.57	0.11	mg/Kg	1	*	*	6010B	Total/NA
Nickel	22		0.57	0.15	mg/Kg	1	*	*	6010B	Total/NA
Thallium	1.3		0.57	0.28	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	27		0.29	0.083	mg/Kg	1	*	*	6010B	Total/NA
Zinc	70		1.1	0.36	mg/Kg	1	*	*	6010B	Total/NA
Potassium	3000		29	4.7	mg/Kg	1	*	*	6010B	Total/NA
Sodium	3000	B	57	7.5	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.59		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	470		6.0	0.50	mg/L	1			6010B	TCLP
Magnesium	79		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1			6010B	TCLP
Arsenic	0.080		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.81		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0086		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	58		6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.064		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.26		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	53		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.23		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	37		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.25		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B33 (0-2) (Continued)

## Lab Sample ID: 500-100826-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.63	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.94		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B34 (0-2)

## Lab Sample ID: 500-100826-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0095	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.024	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.10		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.12		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.092		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.22		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0085	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.049		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.30		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.26	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	42000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	830		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	4100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2900	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230		6.0	0.50	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	99		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.91		0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B34 (0-2) (Continued)

## Lab Sample ID: 500-100826-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0079		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	33		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.49		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	41		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.4	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.046		0.019	0.0065	mg/Kg	1	✱	7471B	Total/NA
pH	8.52		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B35 (0-2)

## Lab Sample ID: 500-100826-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.012	J	0.038	0.0069	mg/Kg	1	✱	8270D	Total/NA
Anthracene	0.038		0.038	0.0064	mg/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	0.11		0.038	0.0052	mg/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	0.10		0.038	0.0075	mg/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	0.18		0.038	0.0083	mg/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	0.037	J	0.038	0.012	mg/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	0.073		0.038	0.011	mg/Kg	1	✱	8270D	Total/NA
Chrysene	0.12		0.038	0.011	mg/Kg	1	✱	8270D	Total/NA
Fluoranthene	0.28		0.038	0.0071	mg/Kg	1	✱	8270D	Total/NA
Fluorene	0.022	J	0.038	0.0054	mg/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.039		0.038	0.010	mg/Kg	1	✱	8270D	Total/NA
Phenanthrene	0.24		0.038	0.0054	mg/Kg	1	✱	8270D	Total/NA
Pyrene	0.32		0.038	0.0077	mg/Kg	1	✱	8270D	Total/NA
Antimony	0.27	J	1.2	0.24	mg/Kg	1	✱	6010B	Total/NA
Arsenic	7.4		0.58	0.27	mg/Kg	1	✱	6010B	Total/NA
Barium	81		0.58	0.11	mg/Kg	1	✱	6010B	Total/NA
Beryllium	0.83		0.23	0.050	mg/Kg	1	✱	6010B	Total/NA
Cadmium	0.52		0.12	0.034	mg/Kg	1	✱	6010B	Total/NA
Chromium	22		0.58	0.10	mg/Kg	1	✱	6010B	Total/NA
Cobalt	9.2		0.29	0.066	mg/Kg	1	✱	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	✱	6010B	Total/NA
Iron	23000		12	4.5	mg/Kg	1	✱	6010B	Total/NA
Lead	77		0.29	0.14	mg/Kg	1	✱	6010B	Total/NA
Magnesium	12000		5.8	2.4	mg/Kg	1	✱	6010B	Total/NA
Calcium	17000		12	3.7	mg/Kg	1	✱	6010B	Total/NA
Manganese	450		0.58	0.11	mg/Kg	1	✱	6010B	Total/NA
Nickel	22		0.58	0.16	mg/Kg	1	✱	6010B	Total/NA
Thallium	1.5		0.58	0.29	mg/Kg	1	✱	6010B	Total/NA
Vanadium	30		0.29	0.085	mg/Kg	1	✱	6010B	Total/NA
Zinc	68		1.2	0.37	mg/Kg	1	✱	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B35 (0-2) (Continued)

## Lab Sample ID: 500-100826-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	3300	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	920	B	60	5.0	mg/L	10		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0095		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	280	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.33	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.075		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.67		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0066		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	47		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	170		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.79		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.55	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0050		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.028		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.95		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B36 (0-2)

## Lab Sample ID: 500-100826-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.019	0.0037	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0057	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0083	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0056	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.2		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	→ 270		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	50000		12	3.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B36 (0-2) (Continued)**

**Lab Sample ID: 500-100826-28**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	540		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.62		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	98		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56	B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	760	B	60	5.0	mg/L	10		6010B	TCLP
Cobalt	0.099		0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.3		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.0079		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	310	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.082		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.071		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.61		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	43		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.094		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.77	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0045		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.024		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.85		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0097	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.040		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.041		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.079		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.054		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.074		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.042		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	13		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B37 (0-2) (Continued)**

**Lab Sample ID: 500-100826-29**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	55		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.73		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.47		0.11	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	19		0.57	0.099	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.6		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	24000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	31000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	57000		11	3.7	mg/Kg	1		☼	6010B	Total/NA
Manganese	450		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	25		0.57	0.16	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.5		0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	25		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA
Zinc	59		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	2400	B	57	7.6	mg/Kg	1		☼	6010B	Total/NA
Barium	0.49	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	800	B	60	5.0	mg/L	10			6010B	TCLP
Cobalt	0.046		0.025	0.010	mg/L	1			6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1			6010B	TCLP
Lead	0.034		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	290	B	2.5	0.50	mg/L	1			6010B	TCLP
Manganese	8.6		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.8	J B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1			6010B	TCLP
Arsenic	0.045	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.54		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0053		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	43		6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.040		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.98		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.41	J B	0.50	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.031		0.019	0.0067	mg/Kg	1		☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B38 (0-2) (Continued)**

**Lab Sample ID: 500-100826-30**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.020	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.042		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.039		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.060		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	53		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	48000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	95000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500	B	55	7.2	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.63	B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	760	B	60	5.0	mg/L	10		6010B	TCLP
Cobalt	0.060		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.8		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.041		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	270	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.067		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.72		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0069		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	45		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.083		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	170		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B38 (0-2) (Continued)

## Lab Sample ID: 500-100826-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.1	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0037		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.77		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B39 (0-2)

## Lab Sample ID: 500-100826-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022		0.018	0.0035	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0047		0.0046	0.0016	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.041	J	0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	0.048	J	0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Pyrene	0.089	J	0.19	0.039	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	550		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2600	B	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		6.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	57		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.067		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.77		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0078		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	55		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.078		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B39 (0-2) (Continued)

## Lab Sample ID: 500-100826-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.41		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	38		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.49	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.011	J	0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.83		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B40 (0-2)

## Lab Sample ID: 500-100826-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.014	J	0.041	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.022	J	0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.037	J	0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.041	0.0075	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0073	J	0.041	0.0063	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.047		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.035	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	95		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	510	B	59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J B	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460	B	6.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.069		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.57	B	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B40 (0-2) (Continued)

## Lab Sample ID: 500-100826-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.043	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.55		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	41		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.72	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.016	J	0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.22		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B41 (0-2)

## Lab Sample ID: 500-100826-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.020	J	0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037		0.035	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.024	J	0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.045		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.052		0.035	0.0071	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.2		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	9.8		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	44000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	93000		110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.92		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	3600		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	610	B	53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J B	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	940	B	60	5.0	mg/L	10		6010B	TCLP
Magnesium	200	B	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2) (Continued)**

**Lab Sample ID: 500-100826-33**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.032	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0040		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	46		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.091		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	80		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.052		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.092		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.25	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.028		0.016	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0083	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.055		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.064		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.032	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.072		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.049		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.10		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	95		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.58		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	29		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	950		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B42 (0-2) (Continued)**

**Lab Sample ID: 500-100826-34**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.091	J	0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.5		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	780	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		6.0	0.50	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.79	B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.022	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	19		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.055		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	55		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.039		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.023	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.026	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0085	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.1		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.98		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7900		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B43 (0-2) (Continued)**

**Lab Sample ID: 500-100826-35**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	8300		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.7		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800	B	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230		6.0	0.50	mg/L	1		6010B	TCLP
Copper	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.065		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.053		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.61		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0075		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	31		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.046		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.096		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.85		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.46	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0038		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.035		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.31		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.033	J	0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.10		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.14		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.19		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.038		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.091		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.15		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.014	J	0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.41		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.057		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.050		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0083	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B44 (0-2) (Continued)**

**Lab Sample ID: 500-100826-36**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.014	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.36		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.32		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.34	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	7.4		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA	
Barium	65		0.53	0.098	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.73		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.44		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA	
Chromium	21		0.53	0.092	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	11		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA	
Copper	25		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA	
Iron	20000		11	4.1	mg/Kg	1	☼	6010B	Total/NA	
Lead	28		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	35000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA	
Calcium	75000		110	34	mg/Kg	10	☼	6010B	Total/NA	
Manganese	690		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA	
Nickel	24		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA	
Thallium	1.4		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	24		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA	
Zinc	50		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA	
Potassium	3500		27	4.4	mg/Kg	1	☼	6010B	Total/NA	
Sodium	1600	B	53	7.1	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.37	J B	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	470	B	6.0	0.50	mg/L	1		6010B	TCLP	
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP	
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	100	B	2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP	
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	3.3	B	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.24	J B	0.50	0.020	mg/L	1		6010B	TCLP	
Arsenic	0.071		0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.62		0.50	0.050	mg/L	1		6010B	SPLP East	
Beryllium	0.0068		0.0040	0.0040	mg/L	1		6010B	SPLP East	
Calcium	60		6.0	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.067		0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.17		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	170		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	47		2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.20		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	33		2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East	
Zinc	0.69	B	0.50	0.020	mg/L	1		6010B	SPLP East	
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East	
Mercury	0.029		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA	
pH	8.68		0.200	0.200	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0075	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.027	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.054		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.039		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.062		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.052		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.014	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.099		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.10		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.47		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J B	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	620	B	60	5.0	mg/L	10		6010B	TCLP
Magnesium	44	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.021	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	51		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.074		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	56		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.038		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Client Sample ID: 2618-7-B35 DUP (0-2) (Continued)

## Lab Sample ID: 500-100826-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.078		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.29	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.68		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B20 DUP (0-2)

## Lab Sample ID: 500-100826-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.019	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.25		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.092		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.10		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.16		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.089		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0080	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.38		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.67		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	30000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	50		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.7		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700	B	61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		6.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0089		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Arsenic	0.072		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.58		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0062		0.0040	0.0040	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 DUP (0-2) (Continued)**

**Lab Sample ID: 500-100826-38**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	26		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	170		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.46		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	2.9	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0051		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.028		0.018	0.0062	mg/Kg	1	☆	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100826-1	2618-7-B08 (0-2)	Solid	09/03/15 17:35	09/04/15 09:30
500-100826-2	2618-7-B10 (0-2)	Solid	09/03/15 17:25	09/04/15 09:30
500-100826-3	2618-7-B11 (0-2)	Solid	09/03/15 17:15	09/04/15 09:30
500-100826-4	2618-7-B12 (0-2)	Solid	09/03/15 17:10	09/04/15 09:30
500-100826-5	2618-7-B13 (0-2)	Solid	09/03/15 16:50	09/04/15 09:30
500-100826-6	2618-7-B14 (0-2)	Solid	09/03/15 16:45	09/04/15 09:30
500-100826-7	2618-7-B15 (0-2)	Solid	09/03/15 16:40	09/04/15 09:30
500-100826-8	2618-7-B16 (0-2)	Solid	09/03/15 16:30	09/04/15 09:30
500-100826-9	2618-7-B17 (0-2)	Solid	09/03/15 16:20	09/04/15 09:30
500-100826-10	2618-7-B18 (0-2)	Solid	09/03/15 16:00	09/04/15 09:30
500-100826-11	2618-7-B19 (0-2)	Solid	09/03/15 15:50	09/04/15 09:30
500-100826-12	2618-7-B20 (0-2)	Solid	09/03/15 15:15	09/04/15 09:30
500-100826-13	2618-7-B21 (0-2)	Solid	09/03/15 15:00	09/04/15 09:30
500-100826-14	2618-7-B22 (0-2)	Solid	09/03/15 14:50	09/04/15 09:30
500-100826-15	2618-7-B23 (0-2)	Solid	09/03/15 14:40	09/04/15 09:30
500-100826-16	2618-7-B24 (0-2)	Solid	09/03/15 14:30	09/04/15 09:30
500-100826-17	2618-7-B25 (0-2)	Solid	09/03/15 14:20	09/04/15 09:30
500-100826-18	2618-7-B26 (0-2)	Solid	09/03/15 14:10	09/04/15 09:30
500-100826-19	2618-7-B27 (0-2)	Solid	09/03/15 12:50	09/04/15 09:30
500-100826-20	2618-7-B28 (0-2)	Solid	09/03/15 12:40	09/04/15 09:30
500-100826-21	2618-7-B29 (0-2)	Solid	09/03/15 12:30	09/04/15 09:30
500-100826-22	2618-7-B30 (0-2)	Solid	09/03/15 12:20	09/04/15 09:30
500-100826-23	2618-7-B31 (0-2)	Solid	09/03/15 12:10	09/04/15 09:30
500-100826-24	2618-7-B32 (0-2)	Solid	09/03/15 12:00	09/04/15 09:30
500-100826-25	2618-7-B33 (0-2)	Solid	09/03/15 11:50	09/04/15 09:30
500-100826-26	2618-7-B34 (0-2)	Solid	09/03/15 11:40	09/04/15 09:30
500-100826-27	2618-7-B35 (0-2)	Solid	09/03/15 11:25	09/04/15 09:30
500-100826-28	2618-7-B36 (0-2)	Solid	09/03/15 11:10	09/04/15 09:30
500-100826-29	2618-7-B37 (0-2)	Solid	09/03/15 11:00	09/04/15 09:30
500-100826-30	2618-7-B38 (0-2)	Solid	09/03/15 10:55	09/04/15 09:30
500-100826-31	2618-7-B39 (0-2)	Solid	09/03/15 10:45	09/04/15 09:30
500-100826-32	2618-7-B40 (0-2)	Solid	09/03/15 10:35	09/04/15 09:30
500-100826-33	2618-7-B41 (0-2)	Solid	09/03/15 10:25	09/04/15 09:30
500-100826-34	2618-7-B42 (0-2)	Solid	09/03/15 10:10	09/04/15 09:30
500-100826-35	2618-7-B43 (0-2)	Solid	09/03/15 09:45	09/04/15 09:30
500-100826-36	2618-7-B44 (0-2)	Solid	09/03/15 09:30	09/04/15 09:30
500-100826-37	2618-7-B35 DUP (0-2)	Solid	09/03/15 11:25	09/04/15 09:30
500-100826-38	2618-7-B20 DUP (0-2)	Solid	09/03/15 15:20	09/04/15 09:30

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

**Date Collected: 09/03/15 17:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Toluene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/08/15 15:34	1
Dibromofluoromethane	96		75 - 120	09/04/15 14:10	09/08/15 15:34	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/15 14:10	09/08/15 15:34	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 14:10	09/08/15 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
<b>Anthracene</b>	<b>0.015</b>	<b>J</b>	0.040	0.0067	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
<b>Benzo[a]anthracene</b>	<b>0.17</b>		0.040	0.0054	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

**Date Collected: 09/03/15 17:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.19		0.040	0.0078	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Benzo[b]fluoranthene	0.36		0.040	0.0087	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Benzo[g,h,i]perylene	0.094	F1	0.040	0.013	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Benzo[k]fluoranthene	0.13		0.040	0.012	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Bis(2-ethylhexyl) phthalate	0.29	F1	0.20	0.073	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.076	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Chrysene	0.26		0.040	0.011	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Dibenz(a,h)anthracene	0.032	J	0.040	0.0078	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
3,3'-Dichlorobenzidine	<0.20	F1	0.20	0.056	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Di-n-octyl phthalate	<0.20	F1	0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Fluoranthene	0.27		0.040	0.0074	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Fluorene	0.0074	J	0.040	0.0056	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Indeno[1,2,3-cd]pyrene	0.10	F1	0.040	0.010	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

**Date Collected: 09/03/15 17:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Pentachlorophenol	<0.81	F1	0.81	0.64	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
<b>Phenanthrene</b>	<b>0.13</b>		0.040	0.0056	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
<b>Pyrene</b>	<b>0.32</b>		0.040	0.0080	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 07:53	09/15/15 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/08/15 07:53	09/15/15 00:11	1
2-Fluorophenol	86		25 - 110	09/08/15 07:53	09/15/15 00:11	1
Nitrobenzene-d5	81		25 - 115	09/08/15 07:53	09/15/15 00:11	1
Phenol-d5	89		31 - 110	09/08/15 07:53	09/15/15 00:11	1
Terphenyl-d14	110		36 - 134	09/08/15 07:53	09/15/15 00:11	1
2,4,6-Tribromophenol	60		35 - 137	09/08/15 07:53	09/15/15 00:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.83</b>	<b>J F1</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Arsenic</b>	<b>15</b>	<b>F1</b>	0.59	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Barium</b>	<b>88</b>		0.59	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Beryllium</b>	<b>0.63</b>		0.24	0.051	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Cadmium</b>	<b>0.46</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/09/15 21:43	1
<b>Chromium</b>	<b>14</b>		0.59	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Cobalt</b>	<b>7.2</b>		0.30	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Copper</b>	<b>22</b>		0.59	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Iron</b>	<b>27000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Lead</b>	<b>82</b>	<b>B</b>	0.30	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Magnesium</b>	<b>27000</b>	<b>B F2</b>	5.9	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Calcium</b>	<b>42000</b>	<b>B F2</b>	12	3.8	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Manganese</b>	<b>590</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Nickel</b>	<b>17</b>		0.59	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Selenium</b>	<b>0.99</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Silver</b>	<b>0.13</b>	<b>J</b>	0.30	0.069	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Thallium</b>	<b>0.76</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Vanadium</b>	<b>26</b>		0.30	0.087	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Zinc</b>	<b>76</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Potassium</b>	<b>1500</b>	<b>F1</b>	30	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1
<b>Sodium</b>	<b>1700</b>		59	7.8	mg/Kg	☼	09/08/15 12:00	09/09/15 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 18:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

**Date Collected: 09/03/15 17:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>270</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 18:42	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 18:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 18:42	1
<b>Magnesium</b>	<b>150</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 18:42	1
<b>Manganese</b>	<b>0.10</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
<b>Potassium</b>	<b>0.73</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 18:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 18:42	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:42	1
<b>Zinc</b>	<b>0.034</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.032</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Barium</b>	<b>0.61</b>	<b>B F1</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 16:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 16:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Calcium</b>	<b>24</b>	<b>B F1</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Chromium</b>	<b>0.099</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Copper</b>	<b>0.097</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Iron</b>	<b>94</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Lead</b>	<b>0.54</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Magnesium</b>	<b>19</b>	<b>B F1</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Manganese</b>	<b>0.85</b>	<b>F1</b>	0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Nickel</b>	<b>0.076</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Potassium</b>	<b>12</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 16:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 16:15	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Vanadium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:15	1
<b>Zinc</b>	<b>0.58</b>	<b>B F1</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:21	1
<b>Thallium</b>	<b>0.0024</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

**Date Collected: 09/03/15 17:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.019	0.0065	mg/Kg	☼	09/09/15 14:00	09/10/15 09:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/09/15 12:35	09/09/15 15:39	1
pH	8.87		0.200	0.200	SU			09/10/15 13:40	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B10 (0-2)**

**Lab Sample ID: 500-100826-2**

Date Collected: 09/03/15 17:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	09/04/15 14:10	09/08/15 15:59	1
Dibromofluoromethane	94		75 - 120	09/04/15 14:10	09/08/15 15:59	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/04/15 14:10	09/08/15 15:59	1
Toluene-d8 (Surr)	88		75 - 122	09/04/15 14:10	09/08/15 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
<b>Benzo[a]anthracene</b>	<b>0.040</b>		0.038	0.0052	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B10 (0-2)**

**Lab Sample ID: 500-100826-2**

**Date Collected: 09/03/15 17:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.042		0.038	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Benzo[b]fluoranthene	0.085		0.038	0.0083	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Benzo[g,h,i]perylene	0.022	J	0.038	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Benzo[k]fluoranthene	0.029	J	0.038	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Bis(2-ethylhexyl) phthalate	0.15	J	0.19	0.071	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Chrysene	0.063		0.038	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Fluoranthene	0.069		0.038	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.038	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B10 (0-2)**

**Lab Sample ID: 500-100826-2**

**Date Collected: 09/03/15 17:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
<b>Phenanthrene</b>	<b>0.033</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
<b>Pyrene</b>	<b>0.073</b>		0.038	0.0077	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 02:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	70		25 - 119				09/08/15 07:53	09/12/15 02:58	1
2-Fluorophenol	78		25 - 110				09/08/15 07:53	09/12/15 02:58	1
Nitrobenzene-d5	75		25 - 115				09/08/15 07:53	09/12/15 02:58	1
Phenol-d5	74		31 - 110				09/08/15 07:53	09/12/15 02:58	1
Terphenyl-d14	99		36 - 134				09/08/15 07:53	09/12/15 02:58	1
2,4,6-Tribromophenol	54		35 - 137				09/08/15 07:53	09/12/15 02:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.96</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Arsenic</b>	<b>9.1</b>		0.59	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Barium</b>	<b>54</b>		0.59	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.051	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Cadmium</b>	<b>0.73</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/09/15 22:06	1
<b>Chromium</b>	<b>18</b>		0.59	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Cobalt</b>	<b>7.2</b>		0.29	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Copper</b>	<b>47</b>		0.59	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Lead</b>	<b>590</b>	<b>B</b>	0.29	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Magnesium</b>	<b>33000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Calcium</b>	<b>52000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Manganese</b>	<b>380</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Nickel</b>	<b>18</b>		0.59	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Selenium</b>	<b>0.95</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Silver</b>	<b>0.13</b>	<b>J</b>	0.29	0.069	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Thallium</b>	<b>0.81</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Vanadium</b>	<b>24</b>		0.29	0.086	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Zinc</b>	<b>140</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Potassium</b>	<b>2200</b>		29	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1
<b>Sodium</b>	<b>2500</b>		59	7.7	mg/Kg	☼	09/08/15 12:00	09/09/15 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:02	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B10 (0-2)**

**Lab Sample ID: 500-100826-2**

**Date Collected: 09/03/15 17:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:02	1
<b>Lead</b>	<b>0.0083</b>		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:02	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:02	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
<b>Potassium</b>	<b>1.8</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:02	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:02	1
<b>Zinc</b>	<b>0.10</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.062</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Barium</b>	<b>0.73</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Beryllium</b>	<b>0.0063</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 16:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Calcium</b>	<b>34</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Cobalt</b>	<b>0.038</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Copper</b>	<b>0.17</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Lead</b>	<b>0.40</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Magnesium</b>	<b>30</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Nickel</b>	<b>0.16</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Potassium</b>	<b>25</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 16:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 16:42	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:42	1
<b>Zinc</b>	<b>2.7</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:25	1
<b>Thallium</b>	<b>0.0035</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B10 (0-2)**

**Lab Sample ID: 500-100826-2**

Date Collected: 09/03/15 17:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.020	0.0068	mg/Kg	☼	09/09/15 14:00	09/10/15 09:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:42	1
pH	8.33		0.200	0.200	SU			09/10/15 13:44	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B11 (0-2)**

**Lab Sample ID: 500-100826-3**

**Date Collected: 09/03/15 17:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Vinyl acetate	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/08/15 16:23	1
Dibromofluoromethane	96		75 - 120	09/04/15 14:10	09/08/15 16:23	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/15 14:10	09/08/15 16:23	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 14:10	09/08/15 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B11 (0-2)**

**Lab Sample ID: 500-100826-3**

**Date Collected: 09/03/15 17:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.14</b>	<b>J</b>	0.20	0.072	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B11 (0-2)**

**Lab Sample ID: 500-100826-3**

**Date Collected: 09/03/15 17:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/08/15 07:53	09/11/15 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119				09/08/15 07:53	09/11/15 23:02	1
2-Fluorophenol	84		25 - 110				09/08/15 07:53	09/11/15 23:02	1
Nitrobenzene-d5	73		25 - 115				09/08/15 07:53	09/11/15 23:02	1
Phenol-d5	80		31 - 110				09/08/15 07:53	09/11/15 23:02	1
Terphenyl-d14	79		36 - 134				09/08/15 07:53	09/11/15 23:02	1
2,4,6-Tribromophenol	54		35 - 137				09/08/15 07:53	09/11/15 23:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.54</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Arsenic</b>	<b>9.9</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Barium</b>	<b>78</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Beryllium</b>	<b>0.88</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 22:11	1
<b>Chromium</b>	<b>22</b>		0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Cobalt</b>	<b>10</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Copper</b>	<b>27</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Iron</b>	<b>24000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Lead</b>	<b>13</b>	<b>B</b>	0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Magnesium</b>	<b>19000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Calcium</b>	<b>30000</b>	<b>B</b>	11	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Manganese</b>	<b>470</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Nickel</b>	<b>28</b>		0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Selenium</b>	<b>1.1</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Silver</b>	<b>0.097</b>	<b>J</b>	0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Thallium</b>	<b>1.0</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Vanadium</b>	<b>30</b>		0.28	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Zinc</b>	<b>58</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Potassium</b>	<b>3400</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 00:49	1
<b>Sodium</b>	<b>3600</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B11 (0-2)**

**Lab Sample ID: 500-100826-3**

Date Collected: 09/03/15 17:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>360</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
<b>Copper</b>	<b>0.018</b>	<b>J B</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:07	1
<b>Magnesium</b>	<b>67</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:07	1
<b>Manganese</b>	<b>3.3</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:07	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:07	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.095</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Barium</b>	<b>0.82</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Beryllium</b>	<b>0.0083</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Calcium</b>	<b>40</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Chromium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Cobalt</b>	<b>0.074</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Lead</b>	<b>0.091</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Magnesium</b>	<b>42</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Nickel</b>	<b>0.24</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Potassium</b>	<b>33</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:05	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Vanadium</b>	<b>0.25</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:05	1
<b>Zinc</b>	<b>0.64</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:28	1
<b>Thallium</b>	<b>0.0056</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B11 (0-2)**

**Lab Sample ID: 500-100826-3**

Date Collected: 09/03/15 17:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:26	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0066	mg/Kg	☼	09/09/15 14:00	09/10/15 09:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/09/15 12:35	09/09/15 15:42	1
pH	8.03		0.200	0.200	SU			09/10/15 13:49	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/08/15 16:47	1
Dibromofluoromethane	95		75 - 120	09/04/15 14:10	09/08/15 16:47	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/15 14:10	09/08/15 16:47	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 14:10	09/08/15 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Benzo[a]anthracene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.033</b>	<b>J</b>	0.038	0.0084	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Benzo[k]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.15</b>	<b>J</b>	0.19	0.071	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Chrysene</b>	<b>0.025</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Fluoranthene</b>	<b>0.028</b>	<b>J</b>	0.038	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.011</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Phenanthrene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Pyrene</b>	<b>0.031</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 01:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	80		25 - 119				09/08/15 07:53	09/12/15 01:00	1
2-Fluorophenol	87		25 - 110				09/08/15 07:53	09/12/15 01:00	1
Nitrobenzene-d5	74		25 - 115				09/08/15 07:53	09/12/15 01:00	1
Phenol-d5	84		31 - 110				09/08/15 07:53	09/12/15 01:00	1
Terphenyl-d14	93		36 - 134				09/08/15 07:53	09/12/15 01:00	1
2,4,6-Tribromophenol	62		35 - 137				09/08/15 07:53	09/12/15 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.26</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Arsenic</b>	<b>8.8</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Barium</b>	<b>65</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Beryllium</b>	<b>0.85</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Cadmium</b>	<b>0.32</b>		0.12	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 22:16	1
<b>Chromium</b>	<b>21</b>		0.58	0.099	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Cobalt</b>	<b>10</b>		0.29	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Copper</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Iron</b>	<b>23000</b>	<b>B</b>	12	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Lead</b>	<b>47</b>	<b>B</b>	0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.8	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Calcium</b>	<b>35000</b>	<b>B</b>	12	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Manganese</b>	<b>410</b>	<b>B</b>	0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Nickel</b>	<b>28</b>		0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Selenium</b>	<b>0.95</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Silver</b>	<b>0.089</b>	<b>J</b>	0.29	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Thallium</b>	<b>1.2</b>		0.58	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Vanadium</b>	<b>28</b>		0.29	0.084	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Zinc</b>	<b>63</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Potassium</b>	<b>3500</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1
<b>Sodium</b>	<b>2700</b>		58	7.6	mg/Kg	☼	09/08/15 12:00	09/09/15 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:12	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
Cobalt	0.016	J	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
Copper	0.020	J B	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:12	1
Lead	0.012		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:12	1
Magnesium	56		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:12	1
Manganese	8.0		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
Potassium	2.7		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:12	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:12	1
Zinc	2.2	B	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.045	J	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Barium	0.54	B	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:11	1
Beryllium	0.0045		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:11	1
Calcium	31	B	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:11	1
Chromium	0.11		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Cobalt	0.048		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Copper	0.13		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Iron	110		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:11	1
Lead	0.23		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:11	1
Magnesium	26	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:11	1
Manganese	1.4		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Nickel	0.12		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Potassium	22	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:11	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Vanadium	0.15		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:11	1
Zinc	0.74	B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:29	1
Thallium	0.0027		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:28	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.019	0.0065	mg/Kg	☼	09/09/15 14:00	09/10/15 09:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:42	1
pH	9.18		0.200	0.200	SU			09/10/15 13:53	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

Date Collected: 09/03/15 16:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/08/15 17:12	1
Dibromofluoromethane	97		75 - 120	09/04/15 14:10	09/08/15 17:12	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/15 14:10	09/08/15 17:12	1
Toluene-d8 (Surr)	90		75 - 122	09/04/15 14:10	09/08/15 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Benzo[a]anthracene</b>	<b>0.018</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

**Date Collected: 09/03/15 16:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.021</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Benzo[b]fluoranthene</b>	<b>0.037</b>	<b>J</b>	0.040	0.0087	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.18</b>	<b>J</b>	0.20	0.074	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Chrysene</b>	<b>0.028</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Fluoranthene</b>	<b>0.036</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.011</b>	<b>J</b>	0.040	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

**Date Collected: 09/03/15 16:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
<b>Pyrene</b>	<b>0.036</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 07:53	09/12/15 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	09/08/15 07:53	09/12/15 01:30	1
2-Fluorophenol	95		25 - 110	09/08/15 07:53	09/12/15 01:30	1
Nitrobenzene-d5	76		25 - 115	09/08/15 07:53	09/12/15 01:30	1
Phenol-d5	86		31 - 110	09/08/15 07:53	09/12/15 01:30	1
Terphenyl-d14	87		36 - 134	09/08/15 07:53	09/12/15 01:30	1
2,4,6-Tribromophenol	53		35 - 137	09/08/15 07:53	09/12/15 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.54</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Arsenic</b>	<b>15</b>		0.59	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Barium</b>	<b>63</b>		0.59	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Beryllium</b>	<b>0.84</b>		0.24	0.051	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Cadmium</b>	<b>0.34</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/09/15 22:29	1
<b>Chromium</b>	<b>21</b>		0.59	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Cobalt</b>	<b>11</b>		0.30	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Copper</b>	<b>28</b>		0.59	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Iron</b>	<b>31000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Lead</b>	<b>22</b>	<b>B</b>	0.30	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Magnesium</b>	<b>15000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Calcium</b>	<b>20000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Manganese</b>	<b>530</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Nickel</b>	<b>29</b>		0.59	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Selenium</b>	<b>1.3</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Silver</b>	<b>0.15</b>	<b>J</b>	0.30	0.069	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Thallium</b>	<b>1.4</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Vanadium</b>	<b>27</b>		0.30	0.086	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Potassium</b>	<b>3100</b>		30	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1
<b>Sodium</b>	<b>2500</b>		59	7.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

Date Collected: 09/03/15 16:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
<b>Copper</b>	<b>0.011</b>	<b>J B</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:24	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:24	1
<b>Manganese</b>	<b>0.72</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
<b>Potassium</b>	<b>3.3</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:24	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:24	1
<b>Zinc</b>	<b>0.23</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.074</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Barium</b>	<b>0.60</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Beryllium</b>	<b>0.0067</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Calcium</b>	<b>22</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Cobalt</b>	<b>0.041</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Lead</b>	<b>0.15</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Magnesium</b>	<b>31</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Potassium</b>	<b>28</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:18	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:18	1
<b>Zinc</b>	<b>0.65</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:30	1
<b>Thallium</b>	<b>0.0049</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

Date Collected: 09/03/15 16:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 09:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:43	1
pH	8.56		0.200	0.200	SU			09/10/15 13:58	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/04/15 14:10	09/08/15 17:36	1
Dibromofluoromethane	96		75 - 120	09/04/15 14:10	09/08/15 17:36	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/04/15 14:10	09/08/15 17:36	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/08/15 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Benzo[a]anthracene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Benzo[b]fluoranthene</b>	<b>0.044</b>		0.039	0.0085	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Benzo[k]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.039	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.17</b>	<b>J</b>	0.20	0.072	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Chrysene</b>	<b>0.035</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Fluoranthene</b>	<b>0.031</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

Date Collected: 09/03/15 16:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
<b>Pyrene</b>	<b>0.035</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119				09/08/15 07:53	09/12/15 01:59	1
2-Fluorophenol	85		25 - 110				09/08/15 07:53	09/12/15 01:59	1
Nitrobenzene-d5	74		25 - 115				09/08/15 07:53	09/12/15 01:59	1
Phenol-d5	80		31 - 110				09/08/15 07:53	09/12/15 01:59	1
Terphenyl-d14	85		36 - 134				09/08/15 07:53	09/12/15 01:59	1
2,4,6-Tribromophenol	62		35 - 137				09/08/15 07:53	09/12/15 01:59	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Arsenic</b>	<b>10</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Barium</b>	<b>73</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Beryllium</b>	<b>0.88</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Cadmium</b>	<b>0.34</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/09/15 22:33	1
<b>Chromium</b>	<b>23</b>		0.58	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Cobalt</b>	<b>12</b>		0.29	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Copper</b>	<b>28</b>		0.58	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Iron</b>	<b>26000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Lead</b>	<b>50</b>	<b>B</b>	0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Magnesium</b>	<b>10000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	12	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Manganese</b>	<b>570</b>	<b>B</b>	0.58	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Nickel</b>	<b>31</b>		0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Selenium</b>	<b>1.3</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Silver</b>	<b>0.14</b>	<b>J</b>	0.29	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Thallium</b>	<b>1.1</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Vanadium</b>	<b>27</b>		0.29	0.085	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Zinc</b>	<b>74</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Potassium</b>	<b>2800</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1
<b>Sodium</b>	<b>2500</b>		58	7.7	mg/Kg	☼	09/08/15 12:00	09/09/15 01:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:29	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:29	1
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
<b>Potassium</b>	<b>1.7 J</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:29	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:29	1
<b>Zinc</b>	<b>0.16 J B</b>		0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.098</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Barium</b>	<b>0.80 B</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Beryllium</b>	<b>0.0087</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Calcium</b>	<b>28 B</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Copper</b>	<b>0.27</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Magnesium</b>	<b>41 B</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Nickel</b>	<b>0.26</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Potassium</b>	<b>33 B</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:25	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Vanadium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:25	1
<b>Zinc</b>	<b>0.79 B</b>		0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:31	1
<b>Thallium</b>	<b>0.0063</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.018	0.0063	mg/Kg	☼	09/09/15 14:00	09/10/15 10:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:43	1
pH	8.17		0.200	0.200	SU			09/10/15 14:06	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B15 (0-2)**

**Lab Sample ID: 500-100826-7**

**Date Collected: 09/03/15 16:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/08/15 18:00	1
Dibromofluoromethane	91		75 - 120	09/04/15 14:10	09/08/15 18:00	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/04/15 14:10	09/08/15 18:00	1
Toluene-d8 (Surr)	88		75 - 122	09/04/15 14:10	09/08/15 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
<b>Benzo[a]anthracene</b>	<b>0.0072</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B15 (0-2)**

**Lab Sample ID: 500-100826-7**

**Date Collected: 09/03/15 16:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0083</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
<b>Benzo[b]fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.12</b>	<b>J</b>	0.20	0.072	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
<b>Fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B15 (0-2)**

**Lab Sample ID: 500-100826-7**

**Date Collected: 09/03/15 16:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
<b>Pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0079	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/08/15 07:53	09/11/15 23:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	65		25 - 119				09/08/15 07:53	09/11/15 23:32	1
2-Fluorophenol	83		25 - 110				09/08/15 07:53	09/11/15 23:32	1
Nitrobenzene-d5	68		25 - 115				09/08/15 07:53	09/11/15 23:32	1
Phenol-d5	83		31 - 110				09/08/15 07:53	09/11/15 23:32	1
Terphenyl-d14	79		36 - 134				09/08/15 07:53	09/11/15 23:32	1
2,4,6-Tribromophenol	61		35 - 137				09/08/15 07:53	09/11/15 23:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Arsenic</b>	<b>8.8</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Barium</b>	<b>66</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Beryllium</b>	<b>0.89</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Cadmium</b>	<b>0.28</b>		0.12	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 22:37	1
<b>Chromium</b>	<b>22</b>		0.58	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Cobalt</b>	<b>11</b>		0.29	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Copper</b>	<b>25</b>		0.58	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Iron</b>	<b>23000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Lead</b>	<b>14</b>	<b>B</b>	0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Magnesium</b>	<b>25000</b>	<b>B</b>	5.8	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Calcium</b>	<b>39000</b>	<b>B</b>	12	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Manganese</b>	<b>440</b>	<b>B</b>	0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Nickel</b>	<b>28</b>		0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Selenium</b>	<b>0.98</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.29	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Thallium</b>	<b>1.1</b>		0.58	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Vanadium</b>	<b>28</b>		0.29	0.084	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Zinc</b>	<b>53</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Potassium</b>	<b>3700</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 01:32	1
<b>Sodium</b>	<b>2600</b>		58	7.6	mg/Kg	☼	09/08/15 12:00	09/09/15 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B15 (0-2)**

**Lab Sample ID: 500-100826-7**

Date Collected: 09/03/15 16:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
<b>Copper</b>	<b>0.010</b>	<b>J B</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:34	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:34	1
<b>Manganese</b>	<b>0.33</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
<b>Potassium</b>	<b>1.9</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:34	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:34	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Barium</b>	<b>0.86</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Beryllium</b>	<b>0.0095</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Calcium</b>	<b>29</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Cobalt</b>	<b>0.056</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Copper</b>	<b>0.29</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Lead</b>	<b>0.097</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Magnesium</b>	<b>43</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Nickel</b>	<b>0.28</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Potassium</b>	<b>35</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:32	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:32	1
<b>Zinc</b>	<b>0.79</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:32	1
<b>Thallium</b>	<b>0.0069</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B15 (0-2)**

**Lab Sample ID: 500-100826-7**

**Date Collected: 09/03/15 16:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.020	0.0069	mg/Kg	☼	09/09/15 14:00	09/10/15 10:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/09/15 12:35	09/09/15 15:44	1
pH	8.16		0.200	0.200	SU			09/10/15 14:11	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B16 (0-2)**

**Lab Sample ID: 500-100826-8**

**Date Collected: 09/03/15 16:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Dibromochloromethane	<0.0055		0.0055	0.00064	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	09/04/15 14:10	09/08/15 18:24	1
Dibromofluoromethane	95		75 - 120	09/04/15 14:10	09/08/15 18:24	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/04/15 14:10	09/08/15 18:24	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/08/15 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
<b>Benzo[a]anthracene</b>	<b>0.038</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B16 (0-2)**

**Lab Sample ID: 500-100826-8**

**Date Collected: 09/03/15 16:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.042		0.040	0.0077	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Benzo[b]fluoranthene	0.072		0.040	0.0086	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Benzo[g,h,i]perylene	0.016	J	0.040	0.013	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Benzo[k]fluoranthene	0.028	J	0.040	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Bis(2-ethylhexyl) phthalate	0.20		0.20	0.073	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Chrysene	0.057		0.040	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Fluoranthene	0.066		0.040	0.0074	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B16 (0-2)**

**Lab Sample ID: 500-100826-8**

**Date Collected: 09/03/15 16:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
<b>Phenanthrene</b>	<b>0.037</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
<b>Pyrene</b>	<b>0.081</b>		0.040	0.0079	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 07:53	09/12/15 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119				09/08/15 07:53	09/12/15 03:27	1
2-Fluorophenol	73		25 - 110				09/08/15 07:53	09/12/15 03:27	1
Nitrobenzene-d5	70		25 - 115				09/08/15 07:53	09/12/15 03:27	1
Phenol-d5	74		31 - 110				09/08/15 07:53	09/12/15 03:27	1
Terphenyl-d14	108		36 - 134				09/08/15 07:53	09/12/15 03:27	1
2,4,6-Tribromophenol	58		35 - 137				09/08/15 07:53	09/12/15 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.52</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Arsenic</b>	<b>9.8</b>		0.59	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Barium</b>	<b>69</b>		0.59	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Beryllium</b>	<b>0.79</b>		0.24	0.051	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Cadmium</b>	<b>0.57</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/09/15 22:42	1
<b>Chromium</b>	<b>20</b>		0.59	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Cobalt</b>	<b>10</b>		0.30	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Copper</b>	<b>27</b>		0.59	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Iron</b>	<b>23000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Lead</b>	<b>160</b>	<b>B</b>	0.30	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Magnesium</b>	<b>14000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Calcium</b>	<b>20000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Manganese</b>	<b>570</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Nickel</b>	<b>24</b>		0.59	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Selenium</b>	<b>1.1</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Silver</b>	<b>0.091</b>	<b>J</b>	0.30	0.069	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Thallium</b>	<b>1.3</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Vanadium</b>	<b>27</b>		0.30	0.086	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Zinc</b>	<b>87</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Potassium</b>	<b>2700</b>		30	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1
<b>Sodium</b>	<b>2300</b>		59	7.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B16 (0-2)**

**Lab Sample ID: 500-100826-8**

**Date Collected: 09/03/15 16:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>220</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:40	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:40	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:40	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
<b>Potassium</b>	<b>2.4</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:40	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:40	1
<b>Zinc</b>	<b>0.25</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.039</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Barium</b>	<b>0.43</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Beryllium</b>	<b>0.0048</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Calcium</b>	<b>20</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Lead</b>	<b>0.26</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Magnesium</b>	<b>22</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Potassium</b>	<b>23</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:38	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Vanadium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:38	1
<b>Zinc</b>	<b>1.2</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:33	1
<b>Thallium</b>	<b>0.0029</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:30	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B16 (0-2)**

**Lab Sample ID: 500-100826-8**

Date Collected: 09/03/15 16:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.019	0.0068	mg/Kg	☼	09/09/15 14:00	09/10/15 10:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	09/09/15 12:35	09/09/15 15:44	1
pH	8.56		0.200	0.200	SU			09/10/15 14:15	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B17 (0-2)**

**Lab Sample ID: 500-100826-9**

Date Collected: 09/03/15 16:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/08/15 18:49	1
Dibromofluoromethane	97		75 - 120	09/04/15 14:10	09/08/15 18:49	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/15 14:10	09/08/15 18:49	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 14:10	09/08/15 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B17 (0-2)**

**Lab Sample ID: 500-100826-9**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.029</b>	<b>J</b>	0.039	0.0084	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Benzo[k]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.21</b>		0.20	0.071	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Chrysene</b>	<b>0.020</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B17 (0-2)**

**Lab Sample ID: 500-100826-9**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Pentachlorophenol	<0.79		0.79	0.62	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Phenanthrene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Pyrene</b>	<b>0.029</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 03:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	78		25 - 119				09/08/15 07:53	09/12/15 03:57	1
2-Fluorophenol	79		25 - 110				09/08/15 07:53	09/12/15 03:57	1
Nitrobenzene-d5	76		25 - 115				09/08/15 07:53	09/12/15 03:57	1
Phenol-d5	79		31 - 110				09/08/15 07:53	09/12/15 03:57	1
Terphenyl-d14	109		36 - 134				09/08/15 07:53	09/12/15 03:57	1
2,4,6-Tribromophenol	60		35 - 137				09/08/15 07:53	09/12/15 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.37</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Arsenic</b>	<b>7.7</b>		0.59	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Barium</b>	<b>81</b>		0.59	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Beryllium</b>	<b>0.75</b>		0.23	0.051	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Cadmium</b>	<b>0.21</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/09/15 22:46	1
<b>Chromium</b>	<b>18</b>		0.59	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Cobalt</b>	<b>9.4</b>		0.29	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Copper</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Lead</b>	<b>15</b>	<b>B</b>	0.29	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Magnesium</b>	<b>17000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Calcium</b>	<b>25000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Manganese</b>	<b>610</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Nickel</b>	<b>18</b>		0.59	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Selenium</b>	<b>0.98</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Silver</b>	<b>0.077</b>	<b>J</b>	0.29	0.069	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Thallium</b>	<b>0.60</b>		0.59	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Vanadium</b>	<b>28</b>		0.29	0.086	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Potassium</b>	<b>2300</b>		29	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1
<b>Sodium</b>	<b>2300</b>		59	7.7	mg/Kg	☼	09/08/15 12:00	09/09/15 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Barium</b>	<b>0.64</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B17 (0-2)**

**Lab Sample ID: 500-100826-9**

Date Collected: 09/03/15 16:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>210</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Cobalt</b>	<b>0.038</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Lead</b>	<b>0.035</b>		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Magnesium</b>	<b>93</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Manganese</b>	<b>10</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Potassium</b>	<b>2.4</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:45	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:45	1
<b>Zinc</b>	<b>0.20</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.039</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Barium</b>	<b>0.56</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Beryllium</b>	<b>0.0049</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Calcium</b>	<b>21</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Cobalt</b>	<b>0.046</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Lead</b>	<b>0.24</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Magnesium</b>	<b>21</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Potassium</b>	<b>19</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:45	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:45	1
<b>Zinc</b>	<b>0.44</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:34	1
<b>Thallium</b>	<b>0.0025</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B17 (0-2)**

**Lab Sample ID: 500-100826-9**

Date Collected: 09/03/15 16:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.018	0.0064	mg/Kg	☼	09/09/15 14:00	09/10/15 10:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:45	1
pH	8.03		0.200	0.200	SU			09/10/15 14:20	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B18 (0-2)**

**Lab Sample ID: 500-100826-10**

**Date Collected: 09/03/15 16:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/08/15 19:13	1
Dibromofluoromethane	99		75 - 120	09/04/15 14:10	09/08/15 19:13	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/04/15 14:10	09/08/15 19:13	1
Toluene-d8 (Surr)	87		75 - 122	09/04/15 14:10	09/08/15 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B18 (0-2)**

**Lab Sample ID: 500-100826-10**

**Date Collected: 09/03/15 16:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.13</b>	<b>J</b>	0.19	0.068	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B18 (0-2)**

**Lab Sample ID: 500-100826-10**

**Date Collected: 09/03/15 16:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	09/08/15 07:53	09/12/15 00:01	1
2-Fluorophenol	82		25 - 110	09/08/15 07:53	09/12/15 00:01	1
Nitrobenzene-d5	65		25 - 115	09/08/15 07:53	09/12/15 00:01	1
Phenol-d5	78		31 - 110	09/08/15 07:53	09/12/15 00:01	1
Terphenyl-d14	71		36 - 134	09/08/15 07:53	09/12/15 00:01	1
2,4,6-Tribromophenol	38		35 - 137	09/08/15 07:53	09/12/15 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.38</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Arsenic</b>	<b>8.4</b>		0.56	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Barium</b>	<b>110</b>		0.56	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Beryllium</b>	<b>0.79</b>		0.22	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Cadmium</b>	<b>0.34</b>		0.11	0.032	mg/Kg	☼	09/08/15 12:00	09/09/15 22:50	1
<b>Chromium</b>	<b>20</b>		0.56	0.096	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Cobalt</b>	<b>11</b>		0.28	0.063	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Copper</b>	<b>22</b>		0.56	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Lead</b>	<b>13</b>	<b>B</b>	0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Magnesium</b>	<b>26000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Calcium</b>	<b>51000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Manganese</b>	<b>710</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Nickel</b>	<b>26</b>		0.56	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Selenium</b>	<b>0.73</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Silver</b>	<b>0.14</b>	<b>J</b>	0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Thallium</b>	<b>0.91</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Vanadium</b>	<b>26</b>		0.28	0.082	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Zinc</b>	<b>49</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Potassium</b>	<b>3500</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1
<b>Sodium</b>	<b>1600</b>		56	7.4	mg/Kg	☼	09/08/15 12:00	09/09/15 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Cadmium</b>	<b>0.0033</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B18 (0-2)**

**Lab Sample ID: 500-100826-10**

**Date Collected: 09/03/15 16:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1000</b>		25	5.0	mg/L		09/10/15 10:00	09/11/15 13:15	10
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Cobalt</b>	<b>0.036</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Magnesium</b>	<b>240</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Manganese</b>	<b>6.9</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Potassium</b>	<b>1.8</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:50	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:50	1
<b>Zinc</b>	<b>0.18</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.059</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Barium</b>	<b>0.54</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Beryllium</b>	<b>0.0055</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Calcium</b>	<b>55</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Cobalt</b>	<b>0.044</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Lead</b>	<b>0.055</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Magnesium</b>	<b>38</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Potassium</b>	<b>27</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:52	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Vanadium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:52	1
<b>Zinc</b>	<b>4.1</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:35	1
<b>Thallium</b>	<b>0.0036</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B18 (0-2)**

**Lab Sample ID: 500-100826-10**

**Date Collected: 09/03/15 16:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 10:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:45	1
pH	8.84		0.200	0.200	SU			09/10/15 14:24	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B19 (0-2)**

**Lab Sample ID: 500-100826-11**

**Date Collected: 09/03/15 15:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Benzene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Bromodichloromethane	<0.0052		0.0052	0.00087	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
2-Butanone (MEK)	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Dibromochloromethane	<0.0052		0.0052	0.00059	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,2-Dichloroethane	<0.0052		0.0052	0.00076	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,2-Dichloropropane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/08/15 19:37	1
Dibromofluoromethane	95		75 - 120	09/04/15 14:10	09/08/15 19:37	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/04/15 14:10	09/08/15 19:37	1
Toluene-d8 (Surr)	88		75 - 122	09/04/15 14:10	09/08/15 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
<b>Benzo[a]anthracene</b>	<b>0.038</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B19 (0-2)**

**Lab Sample ID: 500-100826-11**

**Date Collected: 09/03/15 15:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.039		0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Benzo[b]fluoranthene	0.066		0.039	0.0085	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Benzo[k]fluoranthene	0.028	J	0.039	0.012	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Bis(2-ethylhexyl) phthalate	0.18	J	0.20	0.072	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Chrysene	0.049		0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Fluoranthene	0.066		0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.039	0.010	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B19 (0-2)**

**Lab Sample ID: 500-100826-11**

Date Collected: 09/03/15 15:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
<b>Phenanthrene</b>	<b>0.036</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
<b>Pyrene</b>	<b>0.080</b>		0.039	0.0078	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/15/15 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	09/08/15 07:53	09/15/15 01:30	1
2-Fluorophenol	86		25 - 110	09/08/15 07:53	09/15/15 01:30	1
Nitrobenzene-d5	77		25 - 115	09/08/15 07:53	09/15/15 01:30	1
Phenol-d5	84		31 - 110	09/08/15 07:53	09/15/15 01:30	1
Terphenyl-d14	107		36 - 134	09/08/15 07:53	09/15/15 01:30	1
2,4,6-Tribromophenol	56		35 - 137	09/08/15 07:53	09/15/15 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.49</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Arsenic</b>	<b>8.0</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Barium</b>	<b>77</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Beryllium</b>	<b>0.82</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Cadmium</b>	<b>0.47</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 22:55	1
<b>Chromium</b>	<b>21</b>		0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Cobalt</b>	<b>9.7</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Copper</b>	<b>25</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Lead</b>	<b>82</b>	<b>B</b>	0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Magnesium</b>	<b>13000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	11	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Manganese</b>	<b>440</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Nickel</b>	<b>23</b>		0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Selenium</b>	<b>1.1</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.28	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Thallium</b>	<b>0.88</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Vanadium</b>	<b>29</b>		0.28	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Zinc</b>	<b>66</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Potassium</b>	<b>2500</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1
<b>Sodium</b>	<b>2200</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 19:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 19:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 19:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B19 (0-2)**

**Lab Sample ID: 500-100826-11**

Date Collected: 09/03/15 15:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	100		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 19:55	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
Cobalt	0.015	J	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
Copper	0.024	J B	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 19:55	1
Lead	0.011		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 19:55	1
Magnesium	43		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:55	1
Manganese	3.5		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
Potassium	2.7		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 19:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 19:55	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 19:55	1
Zinc	0.17	J B	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.089		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Barium	0.83	B	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 17:59	1
Beryllium	0.0090		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 17:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 17:59	1
Calcium	23	B	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 17:59	1
Chromium	0.22		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Cobalt	0.068		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Copper	0.25		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Iron	230		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 17:59	1
Lead	0.33		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 17:59	1
Magnesium	38	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:59	1
Manganese	1.9		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Nickel	0.26		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Potassium	30	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 17:59	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Vanadium	0.29		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 17:59	1
Zinc	2.2	B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:35	1
Thallium	0.0057		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B19 (0-2)**

**Lab Sample ID: 500-100826-11**

**Date Collected: 09/03/15 15:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.8**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0065	mg/Kg	☼	09/09/15 14:00	09/10/15 10:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:47	1
pH	7.84		0.200	0.200	SU			09/10/15 14:28	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

**Date Collected: 09/03/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.0046	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Benzene	<0.0060		0.0060	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Bromoform	<0.0060		0.0060	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Bromomethane	<0.0060		0.0060	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
2-Butanone (MEK)	<0.0060		0.0060	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Carbon disulfide	<0.0060		0.0060	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Carbon tetrachloride	<0.0060		0.0060	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Chlorobenzene	<0.0060		0.0060	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Chloroethane	<0.0060		0.0060	0.0025	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Chloroform	<0.0060		0.0060	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Chloromethane	<0.0060		0.0060	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Dibromochloromethane	<0.0060		0.0060	0.00069	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,1-Dichloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,2-Dichloroethane	<0.0060		0.0060	0.00088	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,1-Dichloroethene	<0.0060		0.0060	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,2-Dichloropropane	<0.0060		0.0060	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Ethylbenzene	<0.0060		0.0060	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
2-Hexanone	<0.0060		0.0060	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Methylene Chloride	<0.0060		0.0060	0.0045	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Methyl tert-butyl ether	<0.0060		0.0060	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Styrene	<0.0060		0.0060	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,1,1,2-Tetrachloroethane	<0.0060		0.0060	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Tetrachloroethene	<0.0060		0.0060	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Toluene	<0.0060		0.0060	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Trichloroethene	<0.0060		0.0060	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Vinyl acetate	<0.0060		0.0060	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Vinyl chloride	<0.0060		0.0060	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1
Xylenes, Total	<0.012		0.012	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/04/15 14:10	09/08/15 20:01	1
Dibromofluoromethane	99		75 - 120	09/04/15 14:10	09/08/15 20:01	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/04/15 14:10	09/08/15 20:01	1
Toluene-d8 (Surr)	90		75 - 122	09/04/15 14:10	09/08/15 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

**Date Collected: 09/03/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
<b>Benzo[b]fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.15</b>	<b>J</b>	0.20	0.072	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
<b>Chrysene</b>	<b>0.017</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
<b>Fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

**Date Collected: 09/03/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
<b>Phenanthrene</b>	<b>0.010</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
<b>Pyrene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/08/15 07:53	09/12/15 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	09/08/15 07:53	09/12/15 02:28	1
2-Fluorophenol	83		25 - 110	09/08/15 07:53	09/12/15 02:28	1
Nitrobenzene-d5	72		25 - 115	09/08/15 07:53	09/12/15 02:28	1
Phenol-d5	80		31 - 110	09/08/15 07:53	09/12/15 02:28	1
Terphenyl-d14	93		36 - 134	09/08/15 07:53	09/12/15 02:28	1
2,4,6-Tribromophenol	48		35 - 137	09/08/15 07:53	09/12/15 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Arsenic</b>	<b>7.9</b>		0.61	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Barium</b>	<b>65</b>		0.61	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Beryllium</b>	<b>0.84</b>		0.25	0.053	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Cadmium</b>	<b>0.41</b>		0.12	0.035	mg/Kg	☼	09/08/15 12:00	09/09/15 23:00	1
<b>Chromium</b>	<b>19</b>		0.61	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Cobalt</b>	<b>7.3</b>		0.31	0.069	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Copper</b>	<b>23</b>		0.61	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Lead</b>	<b>99</b>	<b>B</b>	0.31	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Magnesium</b>	<b>13000</b>	<b>B</b>	6.1	2.5	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Calcium</b>	<b>19000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Manganese</b>	<b>310</b>	<b>B</b>	0.61	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Nickel</b>	<b>21</b>		0.61	0.17	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Selenium</b>	<b>0.93</b>		0.61	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.31	0.072	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Thallium</b>	<b>1.2</b>		0.61	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Vanadium</b>	<b>28</b>		0.31	0.089	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Zinc</b>	<b>75</b>	<b>B</b>	1.2	0.39	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Potassium</b>	<b>2900</b>		31	5.0	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1
<b>Sodium</b>	<b>2700</b>		61	8.1	mg/Kg	☼	09/08/15 12:00	09/09/15 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

**Date Collected: 09/03/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>220</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:00	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:00	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:00	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:00	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:00	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:00	1
<b>Zinc</b>	<b>0.31</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.099</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Barium</b>	<b>0.78</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Beryllium</b>	<b>0.0089</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Calcium</b>	<b>29</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Cobalt</b>	<b>0.074</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Copper</b>	<b>0.26</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Lead</b>	<b>0.33</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Magnesium</b>	<b>43</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Nickel</b>	<b>0.26</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Potassium</b>	<b>35</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 18:05	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Vanadium</b>	<b>0.29</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 18:05	1
<b>Zinc</b>	<b>0.89</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:36	1
<b>Thallium</b>	<b>0.0066</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

Date Collected: 09/03/15 15:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.0070	mg/Kg	☼	09/09/15 14:00	09/10/15 10:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/09/15 12:35	09/09/15 15:47	1
pH	8.54		0.200	0.200	SU			09/10/15 14:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B21 (0-2)**

**Lab Sample ID: 500-100826-13**

**Date Collected: 09/03/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/08/15 20:25	1
Dibromofluoromethane	96		75 - 120	09/04/15 14:10	09/08/15 20:25	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/04/15 14:10	09/08/15 20:25	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/08/15 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
<b>Anthracene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0066	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
<b>Benzo[a]anthracene</b>	<b>0.065</b>		0.039	0.0053	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B21 (0-2)**

**Lab Sample ID: 500-100826-13**

**Date Collected: 09/03/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.061		0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Benzo[b]fluoranthene	0.10		0.039	0.0085	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Benzo[g,h,i]perylene	0.026	J	0.039	0.013	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Bis(2-ethylhexyl) phthalate	0.19	J	0.20	0.072	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Chrysene	0.085		0.039	0.011	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Fluoranthene	0.12		0.039	0.0073	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.039	0.010	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2-Methylnaphthalene	0.058		0.039	0.0072	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Naphthalene	0.019	J	0.039	0.0060	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B21 (0-2)**

**Lab Sample ID: 500-100826-13**

Date Collected: 09/03/15 15:00

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
<b>Phenanthrene</b>	<b>0.31</b>		0.039	0.0055	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
<b>Pyrene</b>	<b>0.16</b>		0.039	0.0078	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 07:53	09/15/15 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	09/08/15 07:53	09/15/15 01:56	1
2-Fluorophenol	83		25 - 110	09/08/15 07:53	09/15/15 01:56	1
Nitrobenzene-d5	74		25 - 115	09/08/15 07:53	09/15/15 01:56	1
Phenol-d5	81		31 - 110	09/08/15 07:53	09/15/15 01:56	1
Terphenyl-d14	118		36 - 134	09/08/15 07:53	09/15/15 01:56	1
2,4,6-Tribromophenol	52		35 - 137	09/08/15 07:53	09/15/15 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Arsenic</b>	<b>5.3</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Barium</b>	<b>96</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Beryllium</b>	<b>1.2</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Cadmium</b>	<b>0.58</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 23:04	1
<b>Chromium</b>	<b>12</b>		0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Cobalt</b>	<b>6.5</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Copper</b>	<b>21</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Lead</b>	<b>93</b>	<b>B</b>	0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Magnesium</b>	<b>30000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Calcium</b>	<b>51000</b>	<b>B</b>	11	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Manganese</b>	<b>450</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Nickel</b>	<b>17</b>		0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Selenium</b>	<b>0.92</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Silver</b>	<b>0.14</b>	<b>J</b>	0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Thallium</b>	<b>0.74</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Vanadium</b>	<b>20</b>		0.28	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Zinc</b>	<b>81</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Potassium</b>	<b>1900</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1
<b>Sodium</b>	<b>2200</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 02:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:05	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B21 (0-2)**

**Lab Sample ID: 500-100826-13**

**Date Collected: 09/03/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:05	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:05	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:05	1
<b>Manganese</b>	<b>5.8</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
<b>Potassium</b>	<b>4.3</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:05	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:05	1
<b>Zinc</b>	<b>0.14</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.088</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Barium</b>	<b>0.88</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Beryllium</b>	<b>0.0086</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Calcium</b>	<b>30</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Cobalt</b>	<b>0.090</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Magnesium</b>	<b>38</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Manganese</b>	<b>3.1</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Nickel</b>	<b>0.24</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Potassium</b>	<b>32</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 19:15	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:15	1
<b>Zinc</b>	<b>0.70</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:39	1
<b>Thallium</b>	<b>0.0050</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B21 (0-2)**

**Lab Sample ID: 500-100826-13**

**Date Collected: 09/03/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:50	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 10:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 12:35	09/09/15 15:48	1
pH	8.42		0.200	0.200	SU			09/10/15 14:37	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B22 (0-2)**

**Lab Sample ID: 500-100826-14**

**Date Collected: 09/03/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/08/15 20:50	1
Dibromofluoromethane	98		75 - 120	09/04/15 14:10	09/08/15 20:50	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/04/15 14:10	09/08/15 20:50	1
Toluene-d8 (Surr)	90		75 - 122	09/04/15 14:10	09/08/15 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B22 (0-2)**

**Lab Sample ID: 500-100826-14**

**Date Collected: 09/03/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
<b>Benzo[b]fluoranthene</b>	<b>0.0096</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.12</b>	<b>J</b>	0.19	0.069	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
<b>Fluoranthene</b>	<b>0.0085</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B22 (0-2)**

**Lab Sample ID: 500-100826-14**

Date Collected: 09/03/15 14:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
<b>Pyrene</b>	<b>0.0092</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 07:53	09/12/15 00:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	72		25 - 119				09/08/15 07:53	09/12/15 00:31	1
2-Fluorophenol	79		25 - 110				09/08/15 07:53	09/12/15 00:31	1
Nitrobenzene-d5	76		25 - 115				09/08/15 07:53	09/12/15 00:31	1
Phenol-d5	79		31 - 110				09/08/15 07:53	09/12/15 00:31	1
Terphenyl-d14	88		36 - 134				09/08/15 07:53	09/12/15 00:31	1
2,4,6-Tribromophenol	66		35 - 137				09/08/15 07:53	09/12/15 00:31	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Arsenic</b>	<b>8.6</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Barium</b>	<b>52</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Cadmium</b>	<b>0.38</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 23:09	1
<b>Chromium</b>	<b>17</b>		0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Cobalt</b>	<b>9.1</b>		0.29	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Copper</b>	<b>26</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Lead</b>	<b>13</b>	<b>B</b>	0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Magnesium</b>	<b>31000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Calcium</b>	<b>57000</b>	<b>B</b>	11	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Manganese</b>	<b>430</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Nickel</b>	<b>25</b>		0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Selenium</b>	<b>0.79</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Silver</b>	<b>0.11</b>	<b>J</b>	0.29	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Thallium</b>	<b>0.90</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Vanadium</b>	<b>22</b>		0.29	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Zinc</b>	<b>54</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Potassium</b>	<b>3400</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1
<b>Sodium</b>	<b>1900</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 02:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B22 (0-2)**

**Lab Sample ID: 500-100826-14**

Date Collected: 09/03/15 14:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>360</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:10	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Magnesium</b>	<b>90</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Manganese</b>	<b>3.9</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:10	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:10	1
<b>Zinc</b>	<b>0.19</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.064</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Barium</b>	<b>0.54</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 19:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Calcium</b>	<b>37</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Cobalt</b>	<b>0.045</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Copper</b>	<b>0.17</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Iron</b>	<b>140</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Magnesium</b>	<b>33</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Potassium</b>	<b>28</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 19:22	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Vanadium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:22	1
<b>Zinc</b>	<b>1.1</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:40	1
<b>Thallium</b>	<b>0.0050</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B22 (0-2)**

**Lab Sample ID: 500-100826-14**

**Date Collected: 09/03/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:52	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0061	mg/Kg	☼	09/09/15 14:00	09/10/15 10:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	09/09/15 12:35	09/09/15 15:48	1
pH	8.67		0.200	0.200	SU			09/10/15 14:42	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B23 (0-2)**

**Lab Sample ID: 500-100826-15**

**Date Collected: 09/03/15 14:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/04/15 14:10	09/08/15 21:14	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/08/15 21:14	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/04/15 14:10	09/08/15 21:14	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/08/15 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B23 (0-2)**

**Lab Sample ID: 500-100826-15**

**Date Collected: 09/03/15 14:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B23 (0-2)**

**Lab Sample ID: 500-100826-15**

**Date Collected: 09/03/15 14:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/09/15 07:17	09/11/15 04:27	1
2-Fluorophenol	83		25 - 110	09/09/15 07:17	09/11/15 04:27	1
Nitrobenzene-d5	74		25 - 115	09/09/15 07:17	09/11/15 04:27	1
Phenol-d5	75		31 - 110	09/09/15 07:17	09/11/15 04:27	1
Terphenyl-d14	86		36 - 134	09/09/15 07:17	09/11/15 04:27	1
2,4,6-Tribromophenol	74		35 - 137	09/09/15 07:17	09/11/15 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.44</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Arsenic</b>	<b>13</b>		0.56	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Barium</b>	<b>56</b>		0.56	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Beryllium</b>	<b>0.65</b>		0.22	0.048	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Cadmium</b>	<b>0.36</b>		0.11	0.032	mg/Kg	☼	09/08/15 12:00	09/09/15 23:25	1
<b>Chromium</b>	<b>16</b>		0.56	0.096	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Cobalt</b>	<b>8.1</b>		0.28	0.063	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Copper</b>	<b>24</b>		0.56	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Iron</b>	<b>25000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Lead</b>	<b>49</b>	<b>B</b>	0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Calcium</b>	<b>41000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Manganese</b>	<b>490</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Nickel</b>	<b>21</b>		0.56	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Selenium</b>	<b>0.83</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Silver</b>	<b>0.087</b>	<b>J</b>	0.28	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Thallium</b>	<b>1.1</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Vanadium</b>	<b>25</b>		0.28	0.082	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Zinc</b>	<b>59</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Potassium</b>	<b>2300</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1
<b>Sodium</b>	<b>1700</b>		56	7.4	mg/Kg	☼	09/08/15 12:00	09/09/15 02:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B23 (0-2)**

**Lab Sample ID: 500-100826-15**

Date Collected: 09/03/15 14:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:23	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
<b>Cobalt</b>	<b>0.034</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:23	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:23	1
<b>Manganese</b>	<b>7.3</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
<b>Nickel</b>	<b>0.040</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:23	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:23	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:23	1
<b>Zinc</b>	<b>0.12</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.084</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Barium</b>	<b>0.74</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Beryllium</b>	<b>0.0075</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 19:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Calcium</b>	<b>30</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Cobalt</b>	<b>0.068</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Iron</b>	<b>200</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Lead</b>	<b>0.23</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Magnesium</b>	<b>35</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Potassium</b>	<b>27</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 19:29	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:29	1
<b>Zinc</b>	<b>0.66</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:41	1
<b>Thallium</b>	<b>0.0057</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:47	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B23 (0-2)**

**Lab Sample ID: 500-100826-15**

Date Collected: 09/03/15 14:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:53	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0064	mg/Kg	☼	09/09/15 14:00	09/10/15 10:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/09/15 17:20	09/09/15 19:57	1
pH	8.54		0.200	0.200	SU			09/10/15 14:46	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B24 (0-2)**

**Lab Sample ID: 500-100826-16**

**Date Collected: 09/03/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Bromodichloromethane	<0.0051		0.0051	0.00085	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Chloroform	<0.0051		0.0051	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/04/15 14:10	09/08/15 21:38	1
Dibromofluoromethane	99		75 - 120	09/04/15 14:10	09/08/15 21:38	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/04/15 14:10	09/08/15 21:38	1
Toluene-d8 (Surr)	88		75 - 122	09/04/15 14:10	09/08/15 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
<b>Benzo[a]anthracene</b>	<b>0.0071</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B24 (0-2)**

**Lab Sample ID: 500-100826-16**

**Date Collected: 09/03/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
<b>Benzo[b]fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
<b>Fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B24 (0-2)**

**Lab Sample ID: 500-100826-16**

Date Collected: 09/03/15 14:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
<b>Phenanthrene</b>	<b>0.0066</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119				09/09/15 07:17	09/11/15 04:53	1
2-Fluorophenol	85		25 - 110				09/09/15 07:17	09/11/15 04:53	1
Nitrobenzene-d5	73		25 - 115				09/09/15 07:17	09/11/15 04:53	1
Phenol-d5	84		31 - 110				09/09/15 07:17	09/11/15 04:53	1
Terphenyl-d14	89		36 - 134				09/09/15 07:17	09/11/15 04:53	1
2,4,6-Tribromophenol	67		35 - 137				09/09/15 07:17	09/11/15 04:53	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.59</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Arsenic</b>	<b>11</b>		0.60	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Barium</b>	<b>100</b>		0.60	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Beryllium</b>	<b>0.84</b>		0.24	0.052	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Cadmium</b>	<b>0.29</b>		0.12	0.035	mg/Kg	☼	09/08/15 12:00	09/09/15 23:30	1
<b>Chromium</b>	<b>19</b>		0.60	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Cobalt</b>	<b>8.6</b>		0.30	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Copper</b>	<b>20</b>		0.60	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Lead</b>	<b>23</b>	<b>B</b>	0.30	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Magnesium</b>	<b>7300</b>	<b>B</b>	6.0	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Calcium</b>	<b>9200</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Manganese</b>	<b>310</b>	<b>B</b>	0.60	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Nickel</b>	<b>22</b>		0.60	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Selenium</b>	<b>1.4</b>		0.60	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Thallium</b>	<b>0.87</b>		0.60	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Vanadium</b>	<b>33</b>		0.30	0.088	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Zinc</b>	<b>56</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Potassium</b>	<b>2000</b>		30	4.9	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1
<b>Sodium</b>	<b>1800</b>		60	7.9	mg/Kg	☼	09/08/15 12:00	09/09/15 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.013</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
<b>Barium</b>	<b>0.81</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B24 (0-2)**

**Lab Sample ID: 500-100826-16**

Date Collected: 09/03/15 14:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
Cobalt	0.034		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
Copper	0.014	J B	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
Iron	1.6		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:28	1
Magnesium	62		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:28	1
Manganese	4.6		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
Nickel	0.039		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
Potassium	3.5		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:28	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:28	1
Zinc	0.21	J B	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Barium	1.0	B	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 19:36	1
Beryllium	0.0081		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 19:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 19:36	1
Calcium	26	B	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 19:36	1
Chromium	0.18		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Cobalt	0.081		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Copper	0.23		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Iron	220		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 19:36	1
Lead	0.21		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 19:36	1
Magnesium	34	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:36	1
Manganese	1.8		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Nickel	0.22		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Potassium	23	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 19:36	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Vanadium	0.27		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:36	1
Zinc	1.6	B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:42	1
Thallium	0.0041		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:49	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B24 (0-2)**

**Lab Sample ID: 500-100826-16**

**Date Collected: 09/03/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:55	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0066	mg/Kg	☼	09/09/15 14:00	09/10/15 10:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 17:20	09/09/15 19:57	1
pH	8.21		0.200	0.200	SU			09/10/15 14:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

**Date Collected: 09/03/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/09/15 11:53	1
Dibromofluoromethane	98		75 - 120	09/04/15 14:10	09/09/15 11:53	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/04/15 14:10	09/09/15 11:53	1
Toluene-d8 (Surr)	87		75 - 122	09/04/15 14:10	09/09/15 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Benzo[a]anthracene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

**Date Collected: 09/03/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Benzo[b]fluoranthene</b>	<b>0.041</b>		0.039	0.0085	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Benzo[k]fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.039	0.012	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.072	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.075	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Chrysene</b>	<b>0.026</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,4-Dinitrophenol	<0.79	F1	0.79	0.69	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Di-n-octyl phthalate	<0.20	F1	0.20	0.064	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Fluoranthene</b>	<b>0.040</b>		0.039	0.0073	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.23	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Hexachloroethane	<0.20	F1	0.20	0.060	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.011</b>	<b>J</b>	0.039	0.010	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

Date Collected: 09/03/15 14:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Phenanthrene</b>	<b>0.017</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Pyrene</b>	<b>0.057</b>	<b>F1</b>	0.039	0.0078	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:55	09/15/15 02:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	70		25 - 119				09/08/15 15:55	09/15/15 02:22	1
2-Fluorophenol	72		25 - 110				09/08/15 15:55	09/15/15 02:22	1
Nitrobenzene-d5	59		25 - 115				09/08/15 15:55	09/15/15 02:22	1
Phenol-d5	76		31 - 110				09/08/15 15:55	09/15/15 02:22	1
Terphenyl-d14	131		36 - 134				09/08/15 15:55	09/15/15 02:22	1
2,4,6-Tribromophenol	79		35 - 137				09/08/15 15:55	09/15/15 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.44</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Arsenic</b>	<b>9.5</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Barium</b>	<b>71</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Beryllium</b>	<b>0.67</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Cadmium</b>	<b>0.26</b>		0.12	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 23:34	1
<b>Chromium</b>	<b>16</b>		0.58	0.099	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Cobalt</b>	<b>8.0</b>		0.29	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Copper</b>	<b>19</b>		0.58	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Lead</b>	<b>21</b>	<b>B</b>	0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Magnesium</b>	<b>13000</b>	<b>B</b>	5.8	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Calcium</b>	<b>19000</b>	<b>B</b>	12	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Manganese</b>	<b>400</b>	<b>B</b>	0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Nickel</b>	<b>19</b>		0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Selenium</b>	<b>1.0</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Silver</b>	<b>0.077</b>	<b>J</b>	0.29	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Thallium</b>	<b>0.68</b>		0.58	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Vanadium</b>	<b>25</b>		0.29	0.084	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Zinc</b>	<b>50</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Potassium</b>	<b>1600</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1
<b>Sodium</b>	<b>2300</b>		58	7.6	mg/Kg	☼	09/08/15 12:00	09/09/15 02:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

**Date Collected: 09/03/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:33	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:33	1
<b>Magnesium</b>	<b>89</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:33	1
<b>Manganese</b>	<b>8.3</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
<b>Potassium</b>	<b>2.3</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:33	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:33	1
<b>Zinc</b>	<b>0.57</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.097</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Barium</b>	<b>1.2</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Beryllium</b>	<b>0.010</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 19:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Calcium</b>	<b>48</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Chromium</b>	<b>0.24</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Cobalt</b>	<b>0.095</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Iron</b>	<b>280</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Magnesium</b>	<b>43</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Manganese</b>	<b>3.2</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Potassium</b>	<b>28</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 19:42	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Vanadium</b>	<b>0.35</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:42	1
<b>Zinc</b>	<b>0.79</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:43	1
<b>Thallium</b>	<b>0.0050</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

**Date Collected: 09/03/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:01	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 10:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 17:20	09/09/15 19:58	1
pH	8.61		0.200	0.200	SU			09/10/15 14:55	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

**Date Collected: 09/03/15 14:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.031		0.031	0.0061	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Benzene	<0.0079		0.0079	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Bromodichloromethane	<0.0079		0.0079	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Bromoform	<0.0079		0.0079	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Bromomethane	<0.0079		0.0079	0.0029	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
2-Butanone (MEK)	<0.0079		0.0079	0.0028	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Carbon disulfide	<0.0079		0.0079	0.0029	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Carbon tetrachloride	<0.0079		0.0079	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Chlorobenzene	<0.0079		0.0079	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Chloroethane	<0.0079		0.0079	0.0033	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Chloroform	<0.0079		0.0079	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Chloromethane	<0.0079		0.0079	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
cis-1,2-Dichloroethene	<0.0079		0.0079	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
cis-1,3-Dichloropropene	<0.0079		0.0079	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Dibromochloromethane	<0.0079		0.0079	0.00090	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,1-Dichloroethane	<0.0079		0.0079	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,2-Dichloroethane	<0.0079		0.0079	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,1-Dichloroethene	<0.0079		0.0079	0.0029	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,2-Dichloropropane	<0.0079		0.0079	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,3-Dichloropropene, Total	<0.0079		0.0079	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Ethylbenzene	<0.0079		0.0079	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
2-Hexanone	<0.0079		0.0079	0.0024	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Methylene Chloride	<0.0079		0.0079	0.0059	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
4-Methyl-2-pentanone (MIBK)	<0.0079		0.0079	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Methyl tert-butyl ether	<0.0079		0.0079	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Styrene	<0.0079		0.0079	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,1,2,2-Tetrachloroethane	<0.0079		0.0079	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Tetrachloroethene	<0.0079		0.0079	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Toluene	<0.0079		0.0079	0.0027	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
trans-1,2-Dichloroethene	<0.0079		0.0079	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
trans-1,3-Dichloropropene	<0.0079		0.0079	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,1,1-Trichloroethane	<0.0079		0.0079	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
1,1,2-Trichloroethane	<0.0079		0.0079	0.0015	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Trichloroethene	<0.0079		0.0079	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Vinyl acetate	<0.0079		0.0079	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Vinyl chloride	<0.0079		0.0079	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1
Xylenes, Total	<0.016		0.016	0.0029	mg/Kg	☼	09/04/15 14:10	09/08/15 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/08/15 22:39	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/08/15 22:39	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/04/15 14:10	09/08/15 22:39	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/08/15 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.19		0.19	0.034	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Acenaphthylene	0.21		0.19	0.025	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Anthracene	0.16	J	0.19	0.032	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Benzo[a]anthracene	0.83		0.19	0.026	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

**Date Collected: 09/03/15 14:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.76		0.19	0.037	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Benzo[b]fluoranthene	1.2		0.19	0.041	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Benzo[g,h,i]perylene	0.18	J	0.19	0.061	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Benzo[k]fluoranthene	0.52		0.19	0.056	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Bis(2-chloroethoxy)methane	<0.96		0.96	0.19	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Bis(2-chloroethyl)ether	<0.96		0.96	0.28	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Bis(2-ethylhexyl) phthalate	<0.96		0.96	0.35	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
4-Bromophenyl phenyl ether	<0.96		0.96	0.25	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Butyl benzyl phthalate	<0.96		0.96	0.36	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Carbazole	<0.96		0.96	0.47	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
4-Chloroaniline	<3.8		3.8	0.89	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
4-Chloro-3-methylphenol	<1.9		1.9	0.65	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2-Chloronaphthalene	<0.96		0.96	0.21	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2-Chlorophenol	<0.96		0.96	0.32	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
4-Chlorophenyl phenyl ether	<0.96		0.96	0.22	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Chrysene	0.84		0.19	0.052	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Dibenz(a,h)anthracene	0.097	J	0.19	0.037	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Dibenzofuran	<0.96		0.96	0.22	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
1,2-Dichlorobenzene	<0.96		0.96	0.23	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
1,3-Dichlorobenzene	<0.96		0.96	0.21	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
1,4-Dichlorobenzene	<0.96		0.96	0.24	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
3,3'-Dichlorobenzidine	<0.96		0.96	0.27	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,4-Dichlorophenol	<1.9		1.9	0.45	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Diethyl phthalate	<0.96		0.96	0.32	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,4-Dimethylphenol	<1.9		1.9	0.72	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Dimethyl phthalate	<0.96		0.96	0.25	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Di-n-butyl phthalate	<0.96		0.96	0.29	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
4,6-Dinitro-2-methylphenol	<3.8		3.8	1.5	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,4-Dinitrophenol	<3.8		3.8	3.3	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,4-Dinitrotoluene	<0.96		0.96	0.30	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,6-Dinitrotoluene	<0.96		0.96	0.37	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Di-n-octyl phthalate	<0.96		0.96	0.31	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Fluoranthene	1.3		0.19	0.035	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Fluorene	0.046	J	0.19	0.027	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Hexachlorobenzene	<0.38		0.38	0.044	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Hexachlorobutadiene	<0.96		0.96	0.30	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Hexachlorocyclopentadiene	<3.8		3.8	1.1	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Hexachloroethane	<0.96		0.96	0.29	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Indeno[1,2,3-cd]pyrene	0.27		0.19	0.049	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Isophorone	<0.96		0.96	0.21	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2-Methylnaphthalene	<0.19		0.19	0.035	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2-Methylphenol	<0.96		0.96	0.30	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
3 & 4 Methylphenol	<0.96		0.96	0.32	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Naphthalene	<0.19		0.19	0.029	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2-Nitroaniline	<0.96		0.96	0.26	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
3-Nitroaniline	<1.9		1.9	0.59	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
4-Nitroaniline	<1.9		1.9	0.79	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Nitrobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2-Nitrophenol	<1.9		1.9	0.45	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

Date Collected: 09/03/15 14:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<3.8		3.8	1.8	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
N-Nitrosodi-n-propylamine	<0.96		0.96	0.23	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
N-Nitrosodiphenylamine	<0.96		0.96	0.22	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,2'-oxybis[1-chloropropane]	<0.96		0.96	0.22	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Pentachlorophenol	<3.8		3.8	3.0	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
<b>Phenanthrene</b>	<b>0.38</b>		0.19	0.026	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
Phenol	<0.96		0.96	0.42	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
<b>Pyrene</b>	<b>1.6</b>		0.19	0.038	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
1,2,4-Trichlorobenzene	<0.96		0.96	0.20	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,4,5-Trichlorophenol	<1.9		1.9	0.43	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
2,4,6-Trichlorophenol	<1.9		1.9	0.65	mg/Kg	☼	09/08/15 15:55	09/15/15 02:48	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	99		25 - 119				09/08/15 15:55	09/15/15 02:48	5
2-Fluorophenol	90		25 - 110				09/08/15 15:55	09/15/15 02:48	5
Nitrobenzene-d5	75		25 - 115				09/08/15 15:55	09/15/15 02:48	5
Phenol-d5	101		31 - 110				09/08/15 15:55	09/15/15 02:48	5
Terphenyl-d14	168	X	36 - 134				09/08/15 15:55	09/15/15 02:48	5
2,4,6-Tribromophenol	98		35 - 137				09/08/15 15:55	09/15/15 02:48	5

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.40</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Arsenic</b>	<b>7.2</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Barium</b>	<b>100</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Beryllium</b>	<b>0.87</b>		0.23	0.051	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Cadmium</b>	<b>0.43</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/09/15 23:38	1
<b>Chromium</b>	<b>21</b>		0.58	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Cobalt</b>	<b>7.0</b>		0.29	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Copper</b>	<b>22</b>		0.58	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Lead</b>	<b>26</b>	<b>B</b>	0.29	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Magnesium</b>	<b>8200</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Calcium</b>	<b>14000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Manganese</b>	<b>360</b>	<b>B</b>	0.58	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Nickel</b>	<b>21</b>		0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Selenium</b>	<b>1.4</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Silver</b>	<b>0.084</b>	<b>J</b>	0.29	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Thallium</b>	<b>0.81</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Vanadium</b>	<b>30</b>		0.29	0.085	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Zinc</b>	<b>65</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Potassium</b>	<b>2500</b>		29	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1
<b>Sodium</b>	<b>720</b>		58	7.7	mg/Kg	☼	09/08/15 12:00	09/09/15 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

Date Collected: 09/03/15 14:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>250</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:38	1
<b>Magnesium</b>	<b>96</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:38	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
<b>Potassium</b>	<b>2.3</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:38	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:38	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.017</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Barium</b>	<b>0.41</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 19:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Calcium</b>	<b>22</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Chromium</b>	<b>0.075</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Copper</b>	<b>0.049</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Iron</b>	<b>63</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Lead</b>	<b>0.040</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Magnesium</b>	<b>15</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Nickel</b>	<b>0.052</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Potassium</b>	<b>13</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 19:49	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Vanadium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:49	1
<b>Zinc</b>	<b>0.31</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

**Date Collected: 09/03/15 14:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:03	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.019	0.0066	mg/Kg	☼	09/09/15 14:00	09/10/15 10:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/09/15 17:20	09/09/15 19:58	1
pH	8.45		0.200	0.200	SU			09/10/15 14:59	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B27 (0-2)**

**Lab Sample ID: 500-100826-19**

Date Collected: 09/03/15 12:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.26</b>		0.029	0.0057	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Benzene	<0.0074		0.0074	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Bromodichloromethane	<0.0074		0.0074	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Bromoform	<0.0074		0.0074	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Bromomethane	<0.0074		0.0074	0.0027	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
<b>2-Butanone (MEK)</b>	<b>0.052</b>		0.0074	0.0026	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Carbon disulfide	<0.0074		0.0074	0.0027	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Carbon tetrachloride	<0.0074		0.0074	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Chlorobenzene	<0.0074		0.0074	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Chloroethane	<0.0074		0.0074	0.0031	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Chloroform	<0.0074		0.0074	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Chloromethane	<0.0074		0.0074	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
cis-1,2-Dichloroethene	<0.0074		0.0074	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
cis-1,3-Dichloropropene	<0.0074		0.0074	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Dibromochloromethane	<0.0074		0.0074	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,1-Dichloroethane	<0.0074		0.0074	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,2-Dichloroethane	<0.0074		0.0074	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,1-Dichloroethene	<0.0074		0.0074	0.0027	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,2-Dichloropropane	<0.0074		0.0074	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,3-Dichloropropene, Total	<0.0074		0.0074	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Ethylbenzene	<0.0074		0.0074	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
2-Hexanone	<0.0074		0.0074	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Methylene Chloride	<0.0074		0.0074	0.0056	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
4-Methyl-2-pentanone (MIBK)	<0.0074		0.0074	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Methyl tert-butyl ether	<0.0074		0.0074	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Styrene	<0.0074		0.0074	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,1,1,2-Tetrachloroethane	<0.0074		0.0074	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Tetrachloroethene	<0.0074		0.0074	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Toluene	<0.0074		0.0074	0.0026	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
trans-1,2-Dichloroethene	<0.0074		0.0074	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
trans-1,3-Dichloropropene	<0.0074		0.0074	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,1,1-Trichloroethane	<0.0074		0.0074	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
1,1,2-Trichloroethane	<0.0074		0.0074	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Trichloroethene	<0.0074		0.0074	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Vinyl acetate	<0.0074		0.0074	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Vinyl chloride	<0.0074		0.0074	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1
Xylenes, Total	<0.015		0.015	0.0027	mg/Kg	☼	09/04/15 14:10	09/09/15 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 122	09/04/15 14:10	09/09/15 12:18	1
Dibromofluoromethane	97		75 - 120	09/04/15 14:10	09/09/15 12:18	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/04/15 14:10	09/09/15 12:18	1
Toluene-d8 (Surr)	97		75 - 122	09/04/15 14:10	09/09/15 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.022</b>	<b>J</b>	0.042	0.0076	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Acenaphthylene</b>	<b>0.014</b>	<b>J</b>	0.042	0.0056	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Anthracene</b>	<b>0.072</b>		0.042	0.0071	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Benzo[a]anthracene</b>	<b>0.080</b>		0.042	0.0057	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B27 (0-2)**

**Lab Sample ID: 500-100826-19**

**Date Collected: 09/03/15 12:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 73.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.058</b>		0.042	0.0082	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Benzo[b]fluoranthene</b>	<b>0.089</b>		0.042	0.0091	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Benzo[k]fluoranthene</b>	<b>0.043</b>		0.042	0.012	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Chrysene</b>	<b>0.079</b>		0.042	0.012	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Dibenzofuran</b>	<b>0.060</b>	<b>J</b>	0.21	0.050	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,4-Dinitrophenol	<0.85		0.85	0.75	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Fluoranthene</b>	<b>0.19</b>		0.042	0.0079	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Fluorene</b>	<b>0.063</b>		0.042	0.0060	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>2-Methylnaphthalene</b>	<b>0.016</b>	<b>J</b>	0.042	0.0078	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Naphthalene</b>	<b>0.017</b>	<b>J</b>	0.042	0.0065	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B27 (0-2)**

**Lab Sample ID: 500-100826-19**

Date Collected: 09/03/15 12:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Phenanthrene</b>	<b>0.26</b>		0.042	0.0059	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Pyrene</b>	<b>0.19</b>		0.042	0.0084	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	09/08/15 15:55	09/10/15 17:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	74		25 - 119				09/08/15 15:55	09/10/15 17:47	1
2-Fluorophenol	90		25 - 110				09/08/15 15:55	09/10/15 17:47	1
Nitrobenzene-d5	76		25 - 115				09/08/15 15:55	09/10/15 17:47	1
Phenol-d5	99		31 - 110				09/08/15 15:55	09/10/15 17:47	1
Terphenyl-d14	150	X	36 - 134				09/08/15 15:55	09/10/15 17:47	1
2,4,6-Tribromophenol	104		35 - 137				09/08/15 15:55	09/10/15 17:47	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.61</b>	<b>J</b>	1.3	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Arsenic</b>	<b>13</b>		0.67	0.31	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Barium</b>	<b>72</b>		0.67	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Beryllium</b>	<b>0.93</b>		0.27	0.058	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Cadmium</b>	<b>0.23</b>		0.13	0.039	mg/Kg	☼	09/08/15 12:00	09/09/15 23:42	1
<b>Chromium</b>	<b>25</b>		0.67	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Cobalt</b>	<b>13</b>		0.33	0.076	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Copper</b>	<b>25</b>		0.67	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Iron</b>	<b>31000</b>	<b>B</b>	13	5.2	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Lead</b>	<b>21</b>	<b>B</b>	0.33	0.17	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Magnesium</b>	<b>4500</b>	<b>B</b>	6.7	2.7	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Calcium</b>	<b>2800</b>	<b>B</b>	13	4.3	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Manganese</b>	<b>390</b>	<b>B</b>	0.67	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Nickel</b>	<b>27</b>		0.67	0.18	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Selenium</b>	<b>2.0</b>		0.67	0.33	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.33	0.078	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Thallium</b>	<b>1.8</b>		0.67	0.33	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Vanadium</b>	<b>35</b>		0.33	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Zinc</b>	<b>81</b>	<b>B</b>	1.3	0.42	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Potassium</b>	<b>2800</b>		33	5.5	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1
<b>Sodium</b>	<b>3300</b>		67	8.8	mg/Kg	☼	09/08/15 12:00	09/09/15 03:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
<b>Barium</b>	<b>0.69</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B27 (0-2)**

**Lab Sample ID: 500-100826-19**

**Date Collected: 09/03/15 12:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 73.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>180</b>		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:43	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:43	1
<b>Magnesium</b>	<b>83</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:43	1
<b>Manganese</b>	<b>5.5</b>		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
<b>Potassium</b>	<b>4.2</b>		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:43	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:43	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:43	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.093</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Barium</b>	<b>1.1</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Beryllium</b>	<b>0.0095</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 19:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Calcium</b>	<b>25</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Chromium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Cobalt</b>	<b>0.094</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Copper</b>	<b>0.25</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Iron</b>	<b>260</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Magnesium</b>	<b>35</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Manganese</b>	<b>2.8</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Nickel</b>	<b>0.23</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Potassium</b>	<b>26</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 19:56	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 19:56	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Vanadium</b>	<b>0.36</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 19:56	1
<b>Zinc</b>	<b>0.80</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:44	1
<b>Thallium</b>	<b>0.0044</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 10:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B27 (0-2)**

**Lab Sample ID: 500-100826-19**

Date Collected: 09/03/15 12:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 73.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.020	0.0070	mg/Kg	☼	09/09/15 14:00	09/10/15 10:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.67		0.67	0.22	mg/Kg	☼	09/09/15 17:20	09/09/15 19:59	1
pH	7.77		0.200	0.200	SU			09/10/15 15:04	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B28 (0-2)**

**Lab Sample ID: 500-100826-20**

Date Collected: 09/03/15 12:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.033		0.033	0.0064	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Benzene	<0.0083		0.0083	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Bromodichloromethane	<0.0083		0.0083	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Bromoform	<0.0083		0.0083	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Bromomethane	<0.0083		0.0083	0.0030	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
2-Butanone (MEK)	<0.0083		0.0083	0.0029	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Carbon disulfide	<0.0083		0.0083	0.0030	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Carbon tetrachloride	<0.0083		0.0083	0.0018	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Chlorobenzene	<0.0083		0.0083	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Chloroethane	<0.0083		0.0083	0.0035	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Chloroform	<0.0083		0.0083	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Chloromethane	<0.0083		0.0083	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
cis-1,2-Dichloroethene	<0.0083		0.0083	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
cis-1,3-Dichloropropene	<0.0083		0.0083	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Dibromochloromethane	<0.0083		0.0083	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,1-Dichloroethane	<0.0083		0.0083	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,2-Dichloroethane	<0.0083		0.0083	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,1-Dichloroethene	<0.0083		0.0083	0.0030	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,2-Dichloropropane	<0.0083		0.0083	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,3-Dichloropropane, Total	<0.0083		0.0083	0.0023	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Ethylbenzene	<0.0083		0.0083	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
2-Hexanone	<0.0083		0.0083	0.0026	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Methylene Chloride	<0.0083		0.0083	0.0062	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
4-Methyl-2-pentanone (MIBK)	<0.0083		0.0083	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Methyl tert-butyl ether	<0.0083		0.0083	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Styrene	<0.0083		0.0083	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,1,2,2-Tetrachloroethane	<0.0083		0.0083	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Tetrachloroethene	<0.0083		0.0083	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Toluene	<0.0083		0.0083	0.0029	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
trans-1,2-Dichloroethene	<0.0083		0.0083	0.0021	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
trans-1,3-Dichloropropene	<0.0083		0.0083	0.0023	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,1,1-Trichloroethane	<0.0083		0.0083	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
1,1,2-Trichloroethane	<0.0083		0.0083	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Trichloroethene	<0.0083		0.0083	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Vinyl acetate	<0.0083		0.0083	0.0022	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Vinyl chloride	<0.0083		0.0083	0.0020	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1
Xylenes, Total	<0.017		0.017	0.0031	mg/Kg	☼	09/04/15 14:10	09/08/15 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/04/15 14:10	09/08/15 23:27	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/08/15 23:27	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/04/15 14:10	09/08/15 23:27	1
Toluene-d8 (Surr)	90		75 - 122	09/04/15 14:10	09/08/15 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.37		0.37	0.067	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Acenaphthylene	<0.37		0.37	0.049	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Anthracene</b>	<b>0.46</b>		0.37	0.063	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Benzo[a]anthracene</b>	<b>1.2</b>		0.37	0.050	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B28 (0-2)**

**Lab Sample ID: 500-100826-20**

**Date Collected: 09/03/15 12:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>1.4</b>		0.37	0.072	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Benzo[b]fluoranthene</b>	<b>2.1</b>		0.37	0.081	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Benzo[g,h,i]perylene</b>	<b>0.49</b>		0.37	0.12	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Benzo[k]fluoranthene</b>	<b>0.98</b>		0.37	0.11	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Bis(2-chloroethoxy)methane	<1.9		1.9	0.38	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Bis(2-chloroethyl)ether	<1.9		1.9	0.56	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Bis(2-ethylhexyl) phthalate	<1.9		1.9	0.68	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
4-Bromophenyl phenyl ether	<1.9		1.9	0.49	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Butyl benzyl phthalate	<1.9		1.9	0.71	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Carbazole	<1.9		1.9	0.94	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
4-Chloroaniline	<7.5		7.5	1.8	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
4-Chloro-3-methylphenol	<3.7		3.7	1.3	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2-Chloronaphthalene	<1.9		1.9	0.41	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2-Chlorophenol	<1.9		1.9	0.64	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
4-Chlorophenyl phenyl ether	<1.9		1.9	0.44	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Chrysene</b>	<b>1.3</b>		0.37	0.10	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Dibenz(a,h)anthracene	<0.37		0.37	0.072	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Dibenzofuran	<1.9		1.9	0.44	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
1,2-Dichlorobenzene	<1.9		1.9	0.45	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
1,3-Dichlorobenzene	<1.9		1.9	0.42	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
1,4-Dichlorobenzene	<1.9		1.9	0.48	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
3,3'-Dichlorobenzidine	<1.9		1.9	0.52	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,4-Dichlorophenol	<3.7		3.7	0.89	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Diethyl phthalate	<1.9		1.9	0.63	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,4-Dimethylphenol	<3.7		3.7	1.4	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Dimethyl phthalate	<1.9		1.9	0.49	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Di-n-butyl phthalate	<1.9		1.9	0.57	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
4,6-Dinitro-2-methylphenol	<7.5		7.5	3.0	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,4-Dinitrophenol	<7.5		7.5	6.6	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,4-Dinitrotoluene	<1.9		1.9	0.59	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,6-Dinitrotoluene	<1.9		1.9	0.74	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Di-n-octyl phthalate	<1.9		1.9	0.61	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Fluoranthene</b>	<b>2.6</b>		0.37	0.069	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Fluorene	<0.37		0.37	0.053	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Hexachlorobenzene	<0.75		0.75	0.087	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Hexachlorobutadiene	<1.9		1.9	0.59	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Hexachlorocyclopentadiene	<7.5		7.5	2.2	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Hexachloroethane	<1.9		1.9	0.57	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.57</b>		0.37	0.097	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Isophorone	<1.9		1.9	0.42	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2-Methylnaphthalene	<0.37		0.37	0.069	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2-Methylphenol	<1.9		1.9	0.60	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
3 & 4 Methylphenol	<1.9		1.9	0.62	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Naphthalene	<0.37		0.37	0.058	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2-Nitroaniline	<1.9		1.9	0.50	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
3-Nitroaniline	<3.7		3.7	1.2	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
4-Nitroaniline	<3.7		3.7	1.6	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Nitrobenzene	<0.37		0.37	0.093	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2-Nitrophenol	<3.7		3.7	0.88	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B28 (0-2)**

**Lab Sample ID: 500-100826-20**

Date Collected: 09/03/15 12:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<7.5		7.5	3.6	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
N-Nitrosodi-n-propylamine	<1.9		1.9	0.46	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
N-Nitrosodiphenylamine	<1.9		1.9	0.44	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,2'-oxybis[1-chloropropane]	<1.9		1.9	0.43	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Pentachlorophenol	<7.5		7.5	6.0	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Phenanthrene</b>	<b>1.5</b>		0.37	0.052	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Phenol	<1.9		1.9	0.83	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
<b>Pyrene</b>	<b>3.4</b>		0.37	0.074	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
1,2,4-Trichlorobenzene	<1.9		1.9	0.40	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,4,5-Trichlorophenol	<3.7		3.7	0.85	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
2,4,6-Trichlorophenol	<3.7		3.7	1.3	mg/Kg	☼	09/08/15 15:55	09/10/15 21:16	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		25 - 119				09/08/15 15:55	09/10/15 21:16	10
2-Fluorophenol	91		25 - 110				09/08/15 15:55	09/10/15 21:16	10
Nitrobenzene-d5	84		25 - 115				09/08/15 15:55	09/10/15 21:16	10
Phenol-d5	110		31 - 110				09/08/15 15:55	09/10/15 21:16	10
Terphenyl-d14	185	X	36 - 134				09/08/15 15:55	09/10/15 21:16	10
2,4,6-Tribromophenol	98		35 - 137				09/08/15 15:55	09/10/15 21:16	10

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Arsenic</b>	<b>9.1</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Barium</b>	<b>60</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Cadmium</b>	<b>0.32</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/09/15 23:46	1
<b>Chromium</b>	<b>17</b>		0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Cobalt</b>	<b>10</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Copper</b>	<b>22</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Lead</b>	<b>18</b>	<b>B</b>	0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Calcium</b>	<b>53000</b>	<b>B</b>	11	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Manganese</b>	<b>480</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Nickel</b>	<b>23</b>		0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Selenium</b>	<b>0.76</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Silver</b>	<b>0.084</b>	<b>J</b>	0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Thallium</b>	<b>1.0</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Vanadium</b>	<b>22</b>		0.28	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Zinc</b>	<b>52</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Potassium</b>	<b>2800</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1
<b>Sodium</b>	<b>1200</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 20:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 20:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B28 (0-2)**

**Lab Sample ID: 500-100826-20**

**Date Collected: 09/03/15 12:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 20:48	1
Chromium	0.011	J	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
Copper	0.013	J B	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 20:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 20:48	1
Magnesium	97		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:48	1
Manganese	0.25		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
Potassium	2.9		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 20:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 20:48	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 20:48	1
Zinc	0.36	J B	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Barium	0.50	B	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 20:03	1
Beryllium	0.0048		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 20:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 20:03	1
Calcium	29	B	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 20:03	1
Chromium	0.13		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Cobalt	0.031		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Copper	0.13		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Iron	110		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 20:03	1
Lead	0.10		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 20:03	1
Magnesium	25	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 20:03	1
Manganese	0.90		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Nickel	0.10		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Potassium	19	B	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 20:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 20:03	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Vanadium	0.18		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 20:03	1
Zinc	0.55	B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 20:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:45	1
Thallium	0.0026		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B28 (0-2)**

**Lab Sample ID: 500-100826-20**

**Date Collected: 09/03/15 12:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:07	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0065	mg/Kg	☼	09/09/15 14:00	09/10/15 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/09/15 17:20	09/09/15 20:00	1
pH	8.72		0.200	0.200	SU			09/10/15 15:08	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

Date Collected: 09/03/15 12:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.025</b>		0.018	0.0036	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
<b>2-Butanone (MEK)</b>	<b>0.0025 J</b>		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/08/15 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/08/15 23:51	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/08/15 23:51	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/04/15 14:10	09/08/15 23:51	1
Toluene-d8 (Surr)	85		75 - 122	09/04/15 14:10	09/08/15 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>1.2</b>		0.20	0.036	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Acenaphthylene	<0.20		0.20	0.026	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Anthracene</b>	<b>1.9</b>		0.20	0.033	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Benzo[a]anthracene</b>	<b>1.9</b>		0.20	0.027	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

**Date Collected: 09/03/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>1.8</b>		0.20	0.038	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Benzo[b]fluoranthene</b>	<b>2.7</b>		0.20	0.043	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Benzo[g,h,i]perylene</b>	<b>0.56</b>		0.20	0.064	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Benzo[k]fluoranthene</b>	<b>1.1</b>		0.20	0.059	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Bis(2-chloroethoxy)methane	<1.0		1.0	0.20	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Bis(2-chloroethyl)ether	<1.0		1.0	0.30	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Bis(2-ethylhexyl) phthalate	<1.0		1.0	0.36	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
4-Bromophenyl phenyl ether	<1.0		1.0	0.26	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Butyl benzyl phthalate	<1.0		1.0	0.38	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Carbazole</b>	<b>0.75</b>	<b>J</b>	1.0	0.50	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
4-Chloroaniline	<4.0		4.0	0.93	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
4-Chloro-3-methylphenol	<2.0		2.0	0.68	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2-Chloronaphthalene	<1.0		1.0	0.22	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2-Chlorophenol	<1.0		1.0	0.34	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
4-Chlorophenyl phenyl ether	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Chrysene</b>	<b>1.9</b>		0.20	0.054	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Dibenz(a,h)anthracene	<0.20		0.20	0.038	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Dibenzofuran</b>	<b>0.89</b>	<b>J</b>	1.0	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
1,2-Dichlorobenzene	<1.0		1.0	0.24	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
1,3-Dichlorobenzene	<1.0		1.0	0.22	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
1,4-Dichlorobenzene	<1.0		1.0	0.25	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
3,3'-Dichlorobenzidine	<1.0		1.0	0.28	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,4-Dichlorophenol	<2.0		2.0	0.47	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Diethyl phthalate	<1.0		1.0	0.34	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,4-Dimethylphenol	<2.0		2.0	0.75	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Dimethyl phthalate	<1.0		1.0	0.26	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Di-n-butyl phthalate	<1.0		1.0	0.30	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
4,6-Dinitro-2-methylphenol	<4.0		4.0	1.6	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,4-Dinitrophenol	<4.0		4.0	3.5	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,4-Dinitrotoluene	<1.0		1.0	0.32	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,6-Dinitrotoluene	<1.0		1.0	0.39	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Di-n-octyl phthalate	<1.0		1.0	0.32	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Fluoranthene</b>	<b>6.6</b>		0.20	0.037	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Fluorene</b>	<b>1.3</b>		0.20	0.028	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Hexachlorobenzene	<0.40		0.40	0.046	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Hexachlorobutadiene	<1.0		1.0	0.31	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Hexachlorocyclopentadiene	<4.0		4.0	1.1	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Hexachloroethane	<1.0		1.0	0.30	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.65</b>		0.20	0.052	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Isophorone	<1.0		1.0	0.22	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>2-Methylnaphthalene</b>	<b>0.23</b>		0.20	0.037	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2-Methylphenol	<1.0		1.0	0.32	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
3 & 4 Methylphenol	<1.0		1.0	0.33	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Naphthalene</b>	<b>0.52</b>		0.20	0.031	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2-Nitroaniline	<1.0		1.0	0.27	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
3-Nitroaniline	<2.0		2.0	0.62	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
4-Nitroaniline	<2.0		2.0	0.83	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Nitrobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2-Nitrophenol	<2.0		2.0	0.47	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

Date Collected: 09/03/15 12:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<4.0		4.0	1.9	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
N-Nitrosodi-n-propylamine	<1.0		1.0	0.24	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
N-Nitrosodiphenylamine	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,2'-oxybis[1-chloropropane]	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Pentachlorophenol	<4.0		4.0	3.2	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Phenanthrene</b>	<b>7.3</b>		0.20	0.028	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
Phenol	<1.0		1.0	0.44	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Pyrene</b>	<b>7.2</b>		0.20	0.039	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
1,2,4-Trichlorobenzene	<1.0		1.0	0.21	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,4,5-Trichlorophenol	<2.0		2.0	0.45	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
2,4,6-Trichlorophenol	<2.0		2.0	0.68	mg/Kg	☼	09/08/15 15:55	09/10/15 19:43	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	86		25 - 119				09/08/15 15:55	09/10/15 19:43	5
2-Fluorophenol	88		25 - 110				09/08/15 15:55	09/10/15 19:43	5
Nitrobenzene-d5	83		25 - 115				09/08/15 15:55	09/10/15 19:43	5
Phenol-d5	105		31 - 110				09/08/15 15:55	09/10/15 19:43	5
Terphenyl-d14	151	X	36 - 134				09/08/15 15:55	09/10/15 19:43	5
2,4,6-Tribromophenol	88		35 - 137				09/08/15 15:55	09/10/15 19:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Arsenic</b>	<b>7.5</b>		0.56	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Barium</b>	<b>66</b>		0.56	0.10	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Beryllium</b>	<b>0.63</b>		0.22	0.049	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Cadmium</b>	<b>0.048</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Chromium</b>	<b>15</b>		0.56	0.097	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Cobalt</b>	<b>8.2</b>		0.28	0.063	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Copper</b>	<b>19</b>		0.56	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Iron</b>	<b>18000</b>		11	4.3	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Lead</b>	<b>39</b>		0.28	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Magnesium</b>	<b>20000</b>		5.6	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Calcium</b>	<b>33000</b>		11	3.6	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Manganese</b>	<b>580</b>		0.56	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Nickel</b>	<b>20</b>		0.56	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Thallium</b>	<b>1.6</b>		0.56	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Vanadium</b>	<b>24</b>		0.28	0.082	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Zinc</b>	<b>46</b>		1.1	0.36	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Potassium</b>	<b>1500</b>		28	4.6	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1
<b>Sodium</b>	<b>1900</b>		56	7.4	mg/Kg	☼	09/10/15 18:43	09/12/15 05:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.016</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 13:00	09/11/15 15:33	1
<b>Barium</b>	<b>0.88</b>		0.50	0.050	mg/L		09/10/15 13:00	09/11/15 15:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 15:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 15:33	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

Date Collected: 09/03/15 12:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 15:33	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:33	1
Cobalt	0.036		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:33	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:33	1
Iron	1.8		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 15:33	1
Lead	0.014		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 15:33	1
Magnesium	65		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:33	1
Manganese	8.9		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:33	1
Nickel	0.038		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:33	1
Potassium	3.5		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 15:33	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:13	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:33	1
Zinc	0.18	J B	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.070		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Barium	0.85		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 13:08	1
Beryllium	0.0070		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 13:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 13:08	1
Calcium	30		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 13:08	1
Chromium	0.15		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Cobalt	0.052		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Copper	0.17		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Iron	160		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 13:08	1
Lead	0.23		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 13:08	1
Magnesium	27		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:08	1
Manganese	1.9	F1	0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Nickel	0.16		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Potassium	18		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 13:08	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Vanadium	0.26		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:08	1
Zinc	0.54	B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:51	1
Thallium	0.0030		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 08:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

**Date Collected: 09/03/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:17	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 12:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/09/15 17:20	09/09/15 20:00	1
pH	8.90		0.200	0.200	SU			09/10/15 15:12	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B30 (0-2)**

**Lab Sample ID: 500-100826-22**

**Date Collected: 09/03/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/04/15 14:10	09/09/15 00:15	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 00:15	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/04/15 14:10	09/09/15 00:15	1
Toluene-d8 (Surr)	90		75 - 122	09/04/15 14:10	09/09/15 00:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.32		0.19	0.035	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Acenaphthylene	0.24		0.19	0.026	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Anthracene	0.86		0.19	0.032	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Benzo[a]anthracene	2.8		0.19	0.026	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B30 (0-2)**

**Lab Sample ID: 500-100826-22**

**Date Collected: 09/03/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>2.6</b>		0.19	0.038	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Benzo[b]fluoranthene</b>	<b>4.0</b>		0.19	0.042	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Benzo[g,h,i]perylene</b>	<b>0.69</b>		0.19	0.063	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Benzo[k]fluoranthene</b>	<b>1.7</b>		0.19	0.057	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Bis(2-chloroethoxy)methane	<0.98		0.98	0.20	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Bis(2-chloroethyl)ether	<0.98		0.98	0.29	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Bis(2-ethylhexyl) phthalate	<0.98		0.98	0.35	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
4-Bromophenyl phenyl ether	<0.98		0.98	0.26	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Butyl benzyl phthalate	<0.98		0.98	0.37	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Carbazole	<0.98		0.98	0.49	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
4-Chloroaniline	<3.9		3.9	0.91	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
4-Chloro-3-methylphenol	<1.9		1.9	0.66	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2-Chloronaphthalene	<0.98		0.98	0.21	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2-Chlorophenol	<0.98		0.98	0.33	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
4-Chlorophenyl phenyl ether	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Chrysene</b>	<b>2.8</b>		0.19	0.053	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Dibenz(a,h)anthracene</b>	<b>0.26</b>		0.19	0.038	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Dibenzofuran	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
1,2-Dichlorobenzene	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
1,3-Dichlorobenzene	<0.98		0.98	0.22	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
1,4-Dichlorobenzene	<0.98		0.98	0.25	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
3,3'-Dichlorobenzidine	<0.98		0.98	0.27	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,4-Dichlorophenol	<1.9		1.9	0.46	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Diethyl phthalate	<0.98		0.98	0.33	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,4-Dimethylphenol	<1.9		1.9	0.74	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Dimethyl phthalate	<0.98		0.98	0.25	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Di-n-butyl phthalate	<0.98		0.98	0.30	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
4,6-Dinitro-2-methylphenol	<3.9		3.9	1.6	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,4-Dinitrophenol	<3.9		3.9	3.4	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,4-Dinitrotoluene	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,6-Dinitrotoluene	<0.98		0.98	0.38	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Di-n-octyl phthalate	<0.98		0.98	0.32	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Fluoranthene</b>	<b>5.7</b>		0.19	0.036	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Fluorene</b>	<b>0.28</b>		0.19	0.027	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Hexachlorobenzene	<0.39		0.39	0.045	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Hexachlorobutadiene	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Hexachlorocyclopentadiene	<3.9		3.9	1.1	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Hexachloroethane	<0.98		0.98	0.30	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.87</b>		0.19	0.050	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Isophorone	<0.98		0.98	0.22	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2-Methylnaphthalene	<0.19		0.19	0.036	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2-Methylphenol	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
3 & 4 Methylphenol	<0.98		0.98	0.32	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Naphthalene	<0.19		0.19	0.030	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2-Nitroaniline	<0.98		0.98	0.26	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
3-Nitroaniline	<1.9		1.9	0.60	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
4-Nitroaniline	<1.9		1.9	0.81	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Nitrobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2-Nitrophenol	<1.9		1.9	0.46	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B30 (0-2)**

**Lab Sample ID: 500-100826-22**

Date Collected: 09/03/15 12:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<3.9		3.9	1.8	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
N-Nitrosodi-n-propylamine	<0.98		0.98	0.24	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
N-Nitrosodiphenylamine	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,2'-oxybis[1-chloropropane]	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Pentachlorophenol	<3.9		3.9	3.1	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Phenanthrene</b>	<b>2.8</b>		0.19	0.027	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
Phenol	<0.98		0.98	0.43	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Pyrene</b>	<b>7.3</b>		0.19	0.039	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
1,2,4-Trichlorobenzene	<0.98		0.98	0.21	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,4,5-Trichlorophenol	<1.9		1.9	0.44	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
2,4,6-Trichlorophenol	<1.9		1.9	0.67	mg/Kg	☼	09/08/15 15:55	09/10/15 20:06	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	93		25 - 119				09/08/15 15:55	09/10/15 20:06	5
2-Fluorophenol	93		25 - 110				09/08/15 15:55	09/10/15 20:06	5
Nitrobenzene-d5	89		25 - 115				09/08/15 15:55	09/10/15 20:06	5
Phenol-d5	108		31 - 110				09/08/15 15:55	09/10/15 20:06	5
Terphenyl-d14	165	X	36 - 134				09/08/15 15:55	09/10/15 20:06	5
2,4,6-Tribromophenol	93		35 - 137				09/08/15 15:55	09/10/15 20:06	5

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.36</b>	J	1.1	0.22	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Arsenic</b>	<b>9.3</b>		0.54	0.25	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Barium</b>	<b>49</b>		0.54	0.098	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Beryllium</b>	<b>0.62</b>		0.21	0.047	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Cadmium</b>	<b>0.048</b>	J	0.11	0.031	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Chromium</b>	<b>16</b>		0.54	0.092	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Cobalt</b>	<b>11</b>		0.27	0.061	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Copper</b>	<b>26</b>		0.54	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Iron</b>	<b>20000</b>		11	4.1	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Lead</b>	<b>18</b>		0.27	0.13	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Magnesium</b>	<b>25000</b>		5.4	2.2	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Calcium</b>	<b>40000</b>		11	3.5	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Manganese</b>	<b>420</b>		0.54	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Nickel</b>	<b>27</b>		0.54	0.15	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Thallium</b>	<b>1.5</b>		0.54	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Vanadium</b>	<b>20</b>		0.27	0.078	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Zinc</b>	<b>50</b>		1.1	0.34	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Potassium</b>	<b>2200</b>		27	4.4	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1
<b>Sodium</b>	<b>1800</b>		54	7.1	mg/Kg	☼	09/10/15 18:43	09/12/15 05:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 15:53	1
<b>Barium</b>	<b>0.63</b>		0.50	0.050	mg/L		09/10/15 13:00	09/11/15 15:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 15:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 15:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B30 (0-2)**

**Lab Sample ID: 500-100826-22**

Date Collected: 09/03/15 12:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 15:53	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:53	1
Cobalt	0.016	J	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:53	1
Copper	0.019	J	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:53	1
Iron	0.22		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 15:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 15:53	1
Magnesium	63		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:53	1
Manganese	7.8		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:53	1
Nickel	0.011	J	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:53	1
Potassium	3.2		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:53	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 15:53	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:26	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:53	1
Zinc	0.20	J B	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Barium	0.71		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 13:35	1
Beryllium	0.0078		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 13:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 13:35	1
Calcium	40		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 13:35	1
Chromium	0.17		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Cobalt	0.085		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Copper	0.27		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Iron	200		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 13:35	1
Lead	0.16		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 13:35	1
Magnesium	39		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:35	1
Manganese	2.3		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Nickel	0.22		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Potassium	34		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 13:35	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Vanadium	0.23		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:35	1
Zinc	0.73	B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:55	1
Thallium	0.0060		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 08:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B30 (0-2)**

**Lab Sample ID: 500-100826-22**

Date Collected: 09/03/15 12:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.9

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:19	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0059	mg/Kg	☼	09/09/15 14:00	09/10/15 10:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 17:20	09/09/15 20:00	1
pH	8.23		0.200	0.200	SU			09/10/15 15:17	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B31 (0-2)**

**Lab Sample ID: 500-100826-23**

**Date Collected: 09/03/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.033</b>		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
<b>2-Butanone (MEK)</b>	<b>0.0041</b>	<b>J</b>	0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 14:10	09/09/15 12:43	1
Dibromofluoromethane	99		75 - 120	09/04/15 14:10	09/09/15 12:43	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/04/15 14:10	09/09/15 12:43	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/09/15 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0071	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Acenaphthylene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Anthracene</b>	<b>0.13</b>		0.039	0.0066	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Benzo[a]anthracene</b>	<b>0.32</b>	<b>F1 F2</b>	0.039	0.0053	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B31 (0-2)**

**Lab Sample ID: 500-100826-23**

**Date Collected: 09/03/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.37</b>	<b>F1</b>	0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Benzo[b]fluoranthene</b>	<b>0.62</b>	<b>F1 F2</b>	0.039	0.0085	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Benzo[g,h,i]perylene</b>	<b>0.13</b>		0.039	0.013	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Benzo[k]fluoranthene</b>	<b>0.19</b>	<b>F1</b>	0.039	0.012	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.072	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.075	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Chrysene</b>	<b>0.37</b>	<b>F1 F2</b>	0.039	0.011	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Dibenz(a,h)anthracene</b>	<b>0.037</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
4,6-Dinitro-2-methylphenol	<0.79	F1	0.79	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Di-n-octyl phthalate	<0.20	F1	0.20	0.064	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Fluoranthene</b>	<b>0.71</b>	<b>F1 F2</b>	0.039	0.0073	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Fluorene</b>	<b>0.054</b>		0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.14</b>		0.039	0.010	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B31 (0-2)**

**Lab Sample ID: 500-100826-23**

Date Collected: 09/03/15 12:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Phenanthrene</b>	<b>0.37</b>	<b>F1 F2</b>	0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Pyrene</b>	<b>0.82</b>	<b>F1 F2</b>	0.039	0.0078	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 04:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	78		25 - 119				09/08/15 15:52	09/12/15 04:16	1
2-Fluorophenol	88		25 - 110				09/08/15 15:52	09/12/15 04:16	1
Nitrobenzene-d5	79		25 - 115				09/08/15 15:52	09/12/15 04:16	1
Phenol-d5	86		31 - 110				09/08/15 15:52	09/12/15 04:16	1
Terphenyl-d14	117		36 - 134				09/08/15 15:52	09/12/15 04:16	1
2,4,6-Tribromophenol	91		35 - 137				09/08/15 15:52	09/12/15 04:16	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.50</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Arsenic</b>	<b>11</b>		0.58	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Barium</b>	<b>60</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Beryllium</b>	<b>0.82</b>		0.23	0.050	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Cadmium</b>	<b>0.33</b>		0.12	0.034	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Chromium</b>	<b>21</b>		0.58	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Cobalt</b>	<b>14</b>		0.29	0.066	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Copper</b>	<b>32</b>		0.58	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Iron</b>	<b>24000</b>		12	4.5	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Lead</b>	<b>20</b>		0.29	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Magnesium</b>	<b>21000</b>		5.8	2.4	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Calcium</b>	<b>31000</b>		12	3.7	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Manganese</b>	<b>420</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Nickel</b>	<b>30</b>		0.58	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Thallium</b>	<b>1.6</b>		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Vanadium</b>	<b>27</b>		0.29	0.085	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Zinc</b>	<b>64</b>		1.2	0.37	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Potassium</b>	<b>3200</b>		29	4.7	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1
<b>Sodium</b>	<b>2100</b>	<b>B</b>	58	7.7	mg/Kg	☼	09/08/15 18:20	09/09/15 14:49	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 13:00	09/11/15 15:58	1
<b>Barium</b>	<b>0.70</b>		0.50	0.050	mg/L		09/10/15 13:00	09/11/15 15:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 15:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 15:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B31 (0-2)**

**Lab Sample ID: 500-100826-23**

**Date Collected: 09/03/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 15:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:58	1
Cobalt	0.023	J	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:58	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:58	1
Iron	0.28		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 15:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 15:58	1
Magnesium	63		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:58	1
Manganese	12		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:58	1
Nickel	0.013	J	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:58	1
Potassium	3.5		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 15:58	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:31	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:58	1
Zinc	0.13	J B	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 15:58	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.058		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Barium	0.68		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 13:42	1
Beryllium	0.0059		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 13:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 13:42	1
Calcium	33		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 13:42	1
Chromium	0.14		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Cobalt	0.058		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Copper	0.14		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Iron	140		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 13:42	1
Lead	0.16		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 13:42	1
Magnesium	30		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:42	1
Manganese	1.8		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Nickel	0.15		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Potassium	27		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 13:42	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Vanadium	0.19		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:42	1
Zinc	0.47	J B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 13:42	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:44	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:55	1
Thallium	0.0030		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:55	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B31 (0-2)**

**Lab Sample ID: 500-100826-23**

**Date Collected: 09/03/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:29	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0070	mg/Kg	☼	09/09/15 14:00	09/10/15 10:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/09/15 17:20	09/09/15 20:01	1
pH	8.44		0.200	0.200	SU			09/10/15 15:21	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Dibromochloromethane	<0.0055		0.0055	0.00064	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Tetrachloroethene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/04/15 14:10	09/09/15 13:09	1
Dibromofluoromethane	101		75 - 120	09/04/15 14:10	09/09/15 13:09	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/04/15 14:10	09/09/15 13:09	1
Toluene-d8 (Surr)	87		75 - 122	09/04/15 14:10	09/09/15 13:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.20		0.20	0.036	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Acenaphthylene	<0.20		0.20	0.026	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Anthracene</b>	<b>0.047</b>	<b>J</b>	0.20	0.033	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Benzo[a]anthracene</b>	<b>0.22</b>		0.20	0.027	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.26</b>		0.20	0.039	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Benzo[b]fluoranthene</b>	<b>0.46</b>		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Benzo[g,h,i]perylene</b>	<b>0.10</b>	<b>J</b>	0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Benzo[k]fluoranthene</b>	<b>0.18</b>	<b>J</b>	0.20	0.059	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Bis(2-chloroethoxy)methane	<1.0		1.0	0.20	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Bis(2-chloroethyl)ether	<1.0		1.0	0.30	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Bis(2-ethylhexyl) phthalate	<1.0		1.0	0.37	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
4-Bromophenyl phenyl ether	<1.0		1.0	0.26	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Butyl benzyl phthalate	<1.0		1.0	0.38	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Carbazole	<1.0		1.0	0.50	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
4-Chloroaniline	<4.0		4.0	0.94	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
4-Chloro-3-methylphenol	<2.0		2.0	0.68	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2-Chloronaphthalene	<1.0		1.0	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2-Chlorophenol	<1.0		1.0	0.34	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
4-Chlorophenyl phenyl ether	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Chrysene</b>	<b>0.28</b>		0.20	0.055	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Dibenz(a,h)anthracene	<0.20		0.20	0.039	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Dibenzofuran	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
1,2-Dichlorobenzene	<1.0		1.0	0.24	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
1,3-Dichlorobenzene	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
1,4-Dichlorobenzene	<1.0		1.0	0.26	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
3,3'-Dichlorobenzidine	<1.0		1.0	0.28	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,4-Dichlorophenol	<2.0		2.0	0.48	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Diethyl phthalate	<1.0		1.0	0.34	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,4-Dimethylphenol	<2.0		2.0	0.76	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Dimethyl phthalate	<1.0		1.0	0.26	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Di-n-butyl phthalate	<1.0		1.0	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
4,6-Dinitro-2-methylphenol	<4.0		4.0	1.6	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,4-Dinitrophenol	<4.0		4.0	3.5	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,4-Dinitrotoluene	<1.0		1.0	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,6-Dinitrotoluene	<1.0		1.0	0.39	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Di-n-octyl phthalate	<1.0		1.0	0.33	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Fluoranthene</b>	<b>0.41</b>		0.20	0.037	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Fluorene	<0.20		0.20	0.028	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Hexachlorobenzene	<0.40		0.40	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Hexachlorobutadiene	<1.0		1.0	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Hexachlorocyclopentadiene	<4.0		4.0	1.2	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Hexachloroethane	<1.0		1.0	0.30	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.094</b>	<b>J</b>	0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Isophorone	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2-Methylnaphthalene	<0.20		0.20	0.037	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2-Methylphenol	<1.0		1.0	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
3 & 4 Methylphenol	<1.0		1.0	0.33	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Naphthalene	<0.20		0.20	0.031	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2-Nitroaniline	<1.0		1.0	0.27	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
3-Nitroaniline	<2.0		2.0	0.62	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
4-Nitroaniline	<2.0		2.0	0.84	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Nitrobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2-Nitrophenol	<2.0		2.0	0.47	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<4.0		4.0	1.9	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
N-Nitrosodi-n-propylamine	<1.0		1.0	0.25	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
N-Nitrosodiphenylamine	<1.0		1.0	0.24	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,2'-oxybis[1-chloropropane]	<1.0		1.0	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Pentachlorophenol	<4.0		4.0	3.2	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Phenanthrene</b>	<b>0.22</b>		0.20	0.028	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
Phenol	<1.0		1.0	0.45	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
<b>Pyrene</b>	<b>0.60</b>		0.20	0.040	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
1,2,4-Trichlorobenzene	<1.0		1.0	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,4,5-Trichlorophenol	<2.0		2.0	0.46	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5
2,4,6-Trichlorophenol	<2.0		2.0	0.69	mg/Kg	☼	09/08/15 15:52	09/12/15 04:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	09/08/15 15:52	09/12/15 04:41	5
2-Fluorophenol	90		25 - 110	09/08/15 15:52	09/12/15 04:41	5
Nitrobenzene-d5	100		25 - 115	09/08/15 15:52	09/12/15 04:41	5
Phenol-d5	95		31 - 110	09/08/15 15:52	09/12/15 04:41	5
Terphenyl-d14	153	X	36 - 134	09/08/15 15:52	09/12/15 04:41	5
2,4,6-Tribromophenol	102		35 - 137	09/08/15 15:52	09/12/15 04:41	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Arsenic</b>	<b>8.0</b>		0.59	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Barium</b>	<b>82</b>		0.59	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Beryllium</b>	<b>0.81</b>		0.24	0.051	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Cadmium</b>	<b>0.40</b>		0.12	0.034	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Chromium</b>	<b>21</b>		0.59	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Cobalt</b>	<b>10</b>		0.30	0.067	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Copper</b>	<b>24</b>		0.59	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Iron</b>	<b>22000</b>		12	4.6	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Lead</b>	<b>40</b>		0.30	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Magnesium</b>	<b>24000</b>		5.9	2.4	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Calcium</b>	<b>39000</b>		12	3.8	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Manganese</b>	<b>570</b>		0.59	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Nickel</b>	<b>23</b>		0.59	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Thallium</b>	<b>1.4</b>		0.59	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Vanadium</b>	<b>29</b>		0.30	0.087	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Zinc</b>	<b>55</b>		1.2	0.38	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Potassium</b>	<b>3200</b>		30	4.8	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1
<b>Sodium</b>	<b>2200</b>	B	59	7.8	mg/Kg	☼	09/08/15 18:20	09/09/15 14:55	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:03	1
<b>Barium</b>	<b>0.51</b>		0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>410</b>		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 16:03	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:03	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:03	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:03	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:03	1
<b>Lead</b>	<b>0.0076</b>		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:03	1
<b>Magnesium</b>	<b>78</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:03	1
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:03	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:03	1
<b>Potassium</b>	<b>3.5</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:03	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:36	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:03	1
<b>Zinc</b>	<b>0.62</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:03	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.080</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Barium</b>	<b>0.82</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Beryllium</b>	<b>0.0093</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 13:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Calcium</b>	<b>65</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Cobalt</b>	<b>0.073</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Lead</b>	<b>0.37</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Magnesium</b>	<b>59</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Potassium</b>	<b>45</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 13:48	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:48	1
<b>Zinc</b>	<b>0.75</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 13:48	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:45	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:56	1
<b>Thallium</b>	<b>0.0041</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:56	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:05	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:31	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 11:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/09/15 17:20	09/09/15 20:01	1
pH	8.87		0.200	0.200	SU			09/10/15 15:26	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	09/04/15 14:10	09/09/15 13:34	1
Dibromofluoromethane	96		75 - 120	09/04/15 14:10	09/09/15 13:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/04/15 14:10	09/09/15 13:34	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 14:10	09/09/15 13:34	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.19		0.19	0.035	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Acenaphthylene	<0.19		0.19	0.026	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Anthracene	<0.19		0.19	0.032	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
<b>Benzo[a]anthracene</b>	<b>0.12</b>	<b>J</b>	0.19	0.026	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.15	J	0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Benzo[b]fluoranthene	0.23		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Benzo[g,h,i]perylene	0.082	J	0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Benzo[k]fluoranthene	0.11	J	0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Bis(2-chloroethoxy)methane	<0.98		0.98	0.20	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Bis(2-chloroethyl)ether	<0.98		0.98	0.29	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Bis(2-ethylhexyl) phthalate	<0.98		0.98	0.36	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
4-Bromophenyl phenyl ether	<0.98		0.98	0.26	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Butyl benzyl phthalate	<0.98		0.98	0.37	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Carbazole	<0.98		0.98	0.49	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
4-Chloroaniline	<3.9		3.9	0.91	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
4-Chloro-3-methylphenol	<1.9		1.9	0.66	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2-Chloronaphthalene	<0.98		0.98	0.21	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2-Chlorophenol	<0.98		0.98	0.33	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
4-Chlorophenyl phenyl ether	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Chrysene	0.15	J	0.19	0.053	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Dibenz(a,h)anthracene	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Dibenzofuran	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
1,2-Dichlorobenzene	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
1,3-Dichlorobenzene	<0.98		0.98	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
1,4-Dichlorobenzene	<0.98		0.98	0.25	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
3,3'-Dichlorobenzidine	<0.98		0.98	0.27	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,4-Dichlorophenol	<1.9		1.9	0.46	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Diethyl phthalate	<0.98		0.98	0.33	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,4-Dimethylphenol	<1.9		1.9	0.74	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Dimethyl phthalate	<0.98		0.98	0.25	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Di-n-butyl phthalate	<0.98		0.98	0.30	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
4,6-Dinitro-2-methylphenol	<3.9		3.9	1.6	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,4-Dinitrophenol	<3.9		3.9	3.4	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,4-Dinitrotoluene	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,6-Dinitrotoluene	<0.98		0.98	0.38	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Di-n-octyl phthalate	<0.98		0.98	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Fluoranthene	0.21		0.19	0.036	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Fluorene	<0.19		0.19	0.027	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Hexachlorobenzene	<0.39		0.39	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Hexachlorobutadiene	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Hexachlorocyclopentadiene	<3.9		3.9	1.1	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Hexachloroethane	<0.98		0.98	0.30	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Indeno[1,2,3-cd]pyrene	0.054	J	0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Isophorone	<0.98		0.98	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2-Methylnaphthalene	<0.19		0.19	0.036	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2-Methylphenol	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
3 & 4 Methylphenol	<0.98		0.98	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Naphthalene	<0.19		0.19	0.030	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2-Nitroaniline	<0.98		0.98	0.26	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
3-Nitroaniline	<1.9		1.9	0.60	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
4-Nitroaniline	<1.9		1.9	0.81	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Nitrobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2-Nitrophenol	<1.9		1.9	0.46	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

Date Collected: 09/03/15 11:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.9

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<3.9		3.9	1.8	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
N-Nitrosodi-n-propylamine	<0.98		0.98	0.24	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
N-Nitrosodiphenylamine	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,2'-oxybis[1-chloropropane]	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Pentachlorophenol	<3.9		3.9	3.1	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
<b>Phenanthrene</b>	<b>0.095</b>	<b>J</b>	0.19	0.027	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
Phenol	<0.98		0.98	0.43	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
<b>Pyrene</b>	<b>0.32</b>		0.19	0.039	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
1,2,4-Trichlorobenzene	<0.98		0.98	0.21	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,4,5-Trichlorophenol	<1.9		1.9	0.44	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5
2,4,6-Trichlorophenol	<1.9		1.9	0.67	mg/Kg	☼	09/08/15 15:52	09/12/15 05:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		25 - 119	09/08/15 15:52	09/12/15 05:05	5
2-Fluorophenol	95		25 - 110	09/08/15 15:52	09/12/15 05:05	5
Nitrobenzene-d5	93		25 - 115	09/08/15 15:52	09/12/15 05:05	5
Phenol-d5	90		31 - 110	09/08/15 15:52	09/12/15 05:05	5
Terphenyl-d14	159	X	36 - 134	09/08/15 15:52	09/12/15 05:05	5
2,4,6-Tribromophenol	106		35 - 137	09/08/15 15:52	09/12/15 05:05	5

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Arsenic</b>	<b>7.2</b>		0.57	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Barium</b>	<b>84</b>		0.57	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Beryllium</b>	<b>0.79</b>		0.23	0.049	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Cadmium</b>	<b>0.70</b>		0.11	0.033	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Chromium</b>	<b>20</b>		0.57	0.098	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Cobalt</b>	<b>8.9</b>		0.29	0.064	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Copper</b>	<b>45</b>		0.57	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Iron</b>	<b>20000</b>		11	4.4	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Lead</b>	<b>58</b>		0.29	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Magnesium</b>	<b>16000</b>		5.7	2.3	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Calcium</b>	<b>27000</b>		11	3.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Manganese</b>	<b>400</b>		0.57	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Nickel</b>	<b>22</b>		0.57	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Thallium</b>	<b>1.3</b>		0.57	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Vanadium</b>	<b>27</b>		0.29	0.083	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Zinc</b>	<b>70</b>		1.1	0.36	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Potassium</b>	<b>3000</b>		29	4.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:18	1
<b>Sodium</b>	<b>3000</b>	<b>B</b>	57	7.5	mg/Kg	☼	09/08/15 18:20	09/10/15 12:23	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:16	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

Date Collected: 09/03/15 11:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 81.9

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>470</b>		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 16:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:16	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:16	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:16	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:16	1
<b>Magnesium</b>	<b>79</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:16	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:16	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:16	1
<b>Potassium</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:16	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:41	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:16	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:16	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.080</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Barium</b>	<b>0.81</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Beryllium</b>	<b>0.0086</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 13:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Calcium</b>	<b>58</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Cobalt</b>	<b>0.064</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Lead</b>	<b>0.26</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Magnesium</b>	<b>53</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Nickel</b>	<b>0.23</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Potassium</b>	<b>37</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 13:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 13:55	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Vanadium</b>	<b>0.25</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 13:55	1
<b>Zinc</b>	<b>0.63</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 13:55	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:48	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:57	1
<b>Thallium</b>	<b>0.0048</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:57	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:33	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.019</b>		0.019	0.0066	mg/Kg	☼	09/09/15 14:00	09/10/15 11:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/09/15 17:20	09/09/15 20:01	1
pH	<b>8.94</b>		0.200	0.200	SU			09/10/15 15:30	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

**Date Collected: 09/03/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/09/15 14:00	1
Dibromofluoromethane	101		75 - 120	09/04/15 14:10	09/09/15 14:00	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/04/15 14:10	09/09/15 14:00	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/09/15 14:00	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0095	J	0.039	0.0070	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Anthracene	0.024	J	0.039	0.0065	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Benzo[a]anthracene	0.10		0.039	0.0053	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

**Date Collected: 09/03/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Benzo[b]fluoranthene	0.20		0.039	0.0084	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Benzo[g,h,i]perylene	0.050		0.039	0.013	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Benzo[k]fluoranthene	0.092		0.039	0.012	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Chrysene	0.14		0.039	0.011	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Fluoranthene	0.22		0.039	0.0073	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Fluorene	0.0085 J		0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Indeno[1,2,3-cd]pyrene	0.049		0.039	0.010	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

Date Collected: 09/03/15 11:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 80.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
<b>Phenanthrene</b>	<b>0.13</b>		0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
<b>Pyrene</b>	<b>0.30</b>		0.039	0.0078	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 05:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	88		25 - 119				09/08/15 15:52	09/12/15 05:29	1
2-Fluorophenol	83		25 - 110				09/08/15 15:52	09/12/15 05:29	1
Nitrobenzene-d5	82		25 - 115				09/08/15 15:52	09/12/15 05:29	1
Phenol-d5	93		31 - 110				09/08/15 15:52	09/12/15 05:29	1
Terphenyl-d14	151	X	36 - 134				09/08/15 15:52	09/12/15 05:29	1
2,4,6-Tribromophenol	108		35 - 137				09/08/15 15:52	09/12/15 05:29	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.26</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Arsenic</b>	<b>6.8</b>		0.58	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Barium</b>	<b>74</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Beryllium</b>	<b>0.81</b>		0.23	0.051	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Cadmium</b>	<b>0.39</b>		0.12	0.034	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Chromium</b>	<b>22</b>		0.58	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Cobalt</b>	<b>12</b>		0.29	0.066	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Iron</b>	<b>20000</b>		12	4.5	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Lead</b>	<b>13</b>		0.29	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Magnesium</b>	<b>42000</b>		5.8	2.4	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Calcium</b>	<b>87000</b>		120	38	mg/Kg	☼	09/08/15 18:20	09/10/15 12:27	10
<b>Manganese</b>	<b>830</b>		0.58	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Nickel</b>	<b>27</b>		0.58	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Thallium</b>	<b>1.5</b>		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Vanadium</b>	<b>26</b>		0.29	0.085	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Zinc</b>	<b>42</b>		1.2	0.37	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Potassium</b>	<b>4100</b>		29	4.8	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1
<b>Sodium</b>	<b>2900</b>	<b>B</b>	58	7.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:25	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:21	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

**Date Collected: 09/03/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>230</b>		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 16:21	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:21	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:21	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:21	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:21	1
<b>Lead</b>	<b>0.015</b>		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:21	1
<b>Magnesium</b>	<b>99</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:21	1
<b>Manganese</b>	<b>4.6</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:21	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:21	1
<b>Potassium</b>	<b>3.8</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:21	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:46	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:21	1
<b>Zinc</b>	<b>0.21</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:21	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.055</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Barium</b>	<b>0.91</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Beryllium</b>	<b>0.0079</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 14:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Calcium</b>	<b>33</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Cobalt</b>	<b>0.076</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Lead</b>	<b>0.49</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Magnesium</b>	<b>41</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Potassium</b>	<b>37</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 14:16	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:16	1
<b>Zinc</b>	<b>1.4</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 14:16	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:49	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:58	1
<b>Thallium</b>	<b>0.0041</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:58	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

Date Collected: 09/03/15 11:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 80.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:35	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0065	mg/Kg	☼	09/09/15 14:00	09/10/15 11:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/09/15 17:20	09/09/15 20:01	1
pH	8.52		0.200	0.200	SU			09/10/15 15:34	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/09/15 14:26	1
Dibromofluoromethane	95		75 - 120	09/04/15 14:10	09/09/15 14:26	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/04/15 14:10	09/09/15 14:26	1
Toluene-d8 (Surr)	90		75 - 122	09/04/15 14:10	09/09/15 14:26	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.012	J	0.038	0.0069	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Anthracene	0.038		0.038	0.0064	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Benzo[a]anthracene	0.11		0.038	0.0052	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.10</b>		0.038	0.0075	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Benzo[b]fluoranthene</b>	<b>0.18</b>		0.038	0.0083	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Benzo[g,h,i]perylene</b>	<b>0.037</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Benzo[k]fluoranthene</b>	<b>0.073</b>		0.038	0.011	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Chrysene</b>	<b>0.12</b>		0.038	0.011	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Fluoranthene</b>	<b>0.28</b>		0.038	0.0071	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Fluorene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.039</b>		0.038	0.010	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

Date Collected: 09/03/15 11:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Phenanthrene</b>	<b>0.24</b>		0.038	0.0054	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
<b>Pyrene</b>	<b>0.32</b>		0.038	0.0077	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/08/15 15:52	09/12/15 05:53	1
2-Fluorophenol	86		25 - 110	09/08/15 15:52	09/12/15 05:53	1
Nitrobenzene-d5	76		25 - 115	09/08/15 15:52	09/12/15 05:53	1
Phenol-d5	93		31 - 110	09/08/15 15:52	09/12/15 05:53	1
Terphenyl-d14	145	X	36 - 134	09/08/15 15:52	09/12/15 05:53	1
2,4,6-Tribromophenol	52		35 - 137	09/08/15 15:52	09/12/15 05:53	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.27</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Arsenic</b>	<b>7.4</b>		0.58	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Barium</b>	<b>81</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Beryllium</b>	<b>0.83</b>		0.23	0.050	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Cadmium</b>	<b>0.52</b>		0.12	0.034	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Chromium</b>	<b>22</b>		0.58	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Cobalt</b>	<b>9.2</b>		0.29	0.066	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Iron</b>	<b>23000</b>		12	4.5	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Lead</b>	<b>77</b>		0.29	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Magnesium</b>	<b>12000</b>		5.8	2.4	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Calcium</b>	<b>17000</b>		12	3.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Manganese</b>	<b>450</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Nickel</b>	<b>22</b>		0.58	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Thallium</b>	<b>1.5</b>		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Vanadium</b>	<b>30</b>		0.29	0.085	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Zinc</b>	<b>68</b>		1.2	0.37	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Potassium</b>	<b>2800</b>		29	4.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:32	1
<b>Sodium</b>	<b>3300</b>	<b>B</b>	58	7.7	mg/Kg	☼	09/08/15 18:20	09/10/15 12:31	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Barium</b>	<b>0.45</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>920</b>	<b>B</b>	60	5.0	mg/L		09/10/15 13:00	09/14/15 12:50	10
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:26	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:26	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Lead</b>	<b>0.0095</b>		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Magnesium</b>	<b>280</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Manganese</b>	<b>2.8</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Potassium</b>	<b>1.6</b>	<b>J B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:26	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:51	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:26	1
<b>Zinc</b>	<b>0.33</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:26	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.075</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Barium</b>	<b>0.67</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Beryllium</b>	<b>0.0066</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 14:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Calcium</b>	<b>47</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Cobalt</b>	<b>0.049</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Copper</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Lead</b>	<b>0.15</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Magnesium</b>	<b>44</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Manganese</b>	<b>0.79</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Potassium</b>	<b>31</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 14:22	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Vanadium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:22	1
<b>Zinc</b>	<b>0.55</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 14:22	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:50	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:59	1
<b>Thallium</b>	<b>0.0050</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:59	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.028</b>		0.019	0.0067	mg/Kg	☼	09/09/15 14:00	09/10/15 11:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/09/15 21:40	09/09/15 23:36	1
pH	<b>8.95</b>		0.200	0.200	SU			09/10/15 15:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.023</b>		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/09/15 14:52	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/09/15 14:52	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/04/15 14:10	09/09/15 14:52	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/09/15 14:52	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
<b>Benzo[a]anthracene</b>	<b>0.0057</b>	<b>J</b>	0.037	0.0051	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
<b>Fluoranthene</b>	<b>0.0083</b>	<b>J</b>	0.037	0.0070	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

Date Collected: 09/03/15 11:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
<b>Phenanthrene</b>	<b>0.0056</b>	<b>J</b>	0.037	0.0053	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	09/08/15 15:52	09/11/15 01:49	1
2-Fluorophenol	84		25 - 110	09/08/15 15:52	09/11/15 01:49	1
Nitrobenzene-d5	71		25 - 115	09/08/15 15:52	09/11/15 01:49	1
Phenol-d5	77		31 - 110	09/08/15 15:52	09/11/15 01:49	1
Terphenyl-d14	89		36 - 134	09/08/15 15:52	09/11/15 01:49	1
2,4,6-Tribromophenol	88		35 - 137	09/08/15 15:52	09/11/15 01:49	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.55</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Arsenic</b>	<b>8.7</b>		0.58	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Barium</b>	<b>55</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.050	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Cadmium</b>	<b>1.2</b>		0.12	0.034	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Chromium</b>	<b>20</b>		0.58	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Cobalt</b>	<b>8.6</b>		0.29	0.066	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Copper</b>	<b>31</b>		0.58	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Iron</b>	<b>21000</b>		12	4.5	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Lead</b>	<b>270</b>		0.29	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Magnesium</b>	<b>32000</b>		5.8	2.4	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Calcium</b>	<b>50000</b>		12	3.8	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Manganese</b>	<b>540</b>		0.58	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Nickel</b>	<b>20</b>		0.58	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Thallium</b>	<b>0.62</b>		0.58	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Vanadium</b>	<b>24</b>		0.29	0.085	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Zinc</b>	<b>98</b>		1.2	0.37	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Potassium</b>	<b>2500</b>		29	4.8	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1
<b>Sodium</b>	<b>2400</b>	<b>B</b>	58	7.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:38	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Barium</b>	<b>0.56</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Cadmium</b>	<b>0.0028</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

Date Collected: 09/03/15 11:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>760</b>	<b>B</b>	60	5.0	mg/L		09/10/15 13:00	09/14/15 12:54	10
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Cobalt</b>	<b>0.099</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:31	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Iron</b>	<b>2.3</b>		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Lead</b>	<b>0.0079</b>		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Magnesium</b>	<b>310</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Manganese</b>	<b>7.9</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Nickel</b>	<b>0.082</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Potassium</b>	<b>2.7</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:31	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:31	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:56	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:31	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:31	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.071</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 14:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Calcium</b>	<b>43</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Iron</b>	<b>150</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Lead</b>	<b>0.094</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Magnesium</b>	<b>37</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Potassium</b>	<b>33</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 14:29	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:29	1
<b>Zinc</b>	<b>0.77</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 14:29	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:51	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:02	1
<b>Thallium</b>	<b>0.0045</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:02	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0063	mg/Kg	☼	09/09/15 14:00	09/10/15 11:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 21:40	09/09/15 23:37	1
pH	8.85		0.200	0.200	SU			09/10/15 15:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

**Date Collected: 09/03/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Carbon tetrachloride	<0.0046		0.0046	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Dibromochloromethane	<0.0046		0.0046	0.00052	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,2-Dichloroethane	<0.0046		0.0046	0.00067	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Methylene Chloride	<0.0046		0.0046	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/09/15 15:17	1
Dibromofluoromethane	106		75 - 120	09/04/15 14:10	09/09/15 15:17	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 14:10	09/09/15 15:17	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/09/15 15:17	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Anthracene</b>	<b>0.0097</b>	<b>J</b>	0.037	0.0063	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Benzo[a]anthracene</b>	<b>0.040</b>		0.037	0.0051	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

**Date Collected: 09/03/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.041</b>		0.037	0.0073	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Benzo[b]fluoranthene</b>	<b>0.079</b>		0.037	0.0081	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Benzo[k]fluoranthene</b>	<b>0.030 J</b>		0.037	0.011	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Chrysene</b>	<b>0.054</b>		0.037	0.010	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Fluoranthene</b>	<b>0.074</b>		0.037	0.0070	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

Date Collected: 09/03/15 11:00

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.9

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Phenanthrene</b>	<b>0.042</b>		0.037	0.0053	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Pyrene</b>	<b>0.12</b>		0.037	0.0075	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 06:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	78		25 - 119				09/08/15 15:52	09/12/15 06:17	1
2-Fluorophenol	85		25 - 110				09/08/15 15:52	09/12/15 06:17	1
Nitrobenzene-d5	74		25 - 115				09/08/15 15:52	09/12/15 06:17	1
Phenol-d5	97		31 - 110				09/08/15 15:52	09/12/15 06:17	1
Terphenyl-d14	169	X	36 - 134				09/08/15 15:52	09/12/15 06:17	1
2,4,6-Tribromophenol	97		35 - 137				09/08/15 15:52	09/12/15 06:17	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Arsenic</b>	<b>13</b>		0.57	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Barium</b>	<b>55</b>		0.57	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Beryllium</b>	<b>0.73</b>		0.23	0.050	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Cadmium</b>	<b>0.47</b>		0.11	0.033	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Chromium</b>	<b>19</b>		0.57	0.099	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Cobalt</b>	<b>9.6</b>		0.29	0.065	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Copper</b>	<b>25</b>		0.57	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Iron</b>	<b>24000</b>		11	4.4	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Lead</b>	<b>12</b>		0.29	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Magnesium</b>	<b>31000</b>		5.7	2.3	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Calcium</b>	<b>57000</b>		11	3.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Manganese</b>	<b>450</b>		0.57	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Nickel</b>	<b>25</b>		0.57	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Thallium</b>	<b>1.5</b>		0.57	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Vanadium</b>	<b>25</b>		0.29	0.084	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Zinc</b>	<b>59</b>		1.1	0.36	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Potassium</b>	<b>3100</b>		29	4.7	mg/Kg	☼	09/08/15 18:20	09/09/15 15:45	1
<b>Sodium</b>	<b>2400</b>	<b>B</b>	57	7.6	mg/Kg	☼	09/08/15 18:20	09/10/15 12:35	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:36	1
<b>Barium</b>	<b>0.49</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:36	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:36	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

Date Collected: 09/03/15 11:00

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.9

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	800	B	60	5.0	mg/L		09/10/15 13:00	09/14/15 12:58	10
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:36	1
Cobalt	0.046		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:36	1
Copper	0.010	J	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:36	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:36	1
Lead	0.034		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:36	1
Magnesium	290	B	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:36	1
Manganese	8.6		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:36	1
Nickel	0.033		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:36	1
Potassium	1.8	J B	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:36	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:36	1
Zinc	0.21	J B	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:36	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.045	J	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Barium	0.54		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 14:36	1
Beryllium	0.0053		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 14:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 14:36	1
Calcium	43		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 14:36	1
Chromium	0.12		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Cobalt	0.040		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Copper	0.12		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Iron	110		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 14:36	1
Lead	0.23		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 14:36	1
Magnesium	34		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:36	1
Manganese	0.98		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Nickel	0.13		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Potassium	30		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 14:36	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Vanadium	0.16		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:36	1
Zinc	0.41	J B	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 14:36	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:51	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:03	1
Thallium	0.0025		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:03	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

**Date Collected: 09/03/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0067	mg/Kg	☼	09/09/15 14:00	09/10/15 11:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/09/15 21:40	09/09/15 23:38	1
pH	8.47		0.200	0.200	SU			09/10/15 15:48	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/09/15 15:43	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 15:43	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/04/15 14:10	09/09/15 15:43	1
Toluene-d8 (Surr)	88		75 - 122	09/04/15 14:10	09/09/15 15:43	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
<b>Benzo[a]anthracene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
<b>Benzo[b]fluoranthene</b>	<b>0.042</b>		0.038	0.0082	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
<b>Chrysene</b>	<b>0.030</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
<b>Fluoranthene</b>	<b>0.039</b>		0.038	0.0070	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

Date Collected: 09/03/15 10:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
<b>Phenanthrene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
<b>Pyrene</b>	<b>0.060</b>		0.038	0.0075	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/12/15 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119				09/08/15 15:52	09/12/15 06:42	1
2-Fluorophenol	83		25 - 110				09/08/15 15:52	09/12/15 06:42	1
Nitrobenzene-d5	77		25 - 115				09/08/15 15:52	09/12/15 06:42	1
Phenol-d5	88		31 - 110				09/08/15 15:52	09/12/15 06:42	1
Terphenyl-d14	152	X	36 - 134				09/08/15 15:52	09/12/15 06:42	1
2,4,6-Tribromophenol	81		35 - 137				09/08/15 15:52	09/12/15 06:42	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.41</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Arsenic</b>	<b>6.3</b>		0.55	0.25	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Barium</b>	<b>54</b>		0.55	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Beryllium</b>	<b>0.58</b>		0.22	0.047	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.032	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Chromium</b>	<b>15</b>		0.55	0.094	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Cobalt</b>	<b>6.5</b>		0.27	0.062	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Copper</b>	<b>18</b>		0.55	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Iron</b>	<b>16000</b>		11	4.2	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Lead</b>	<b>53</b>		0.27	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Magnesium</b>	<b>48000</b>		5.5	2.2	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Calcium</b>	<b>95000</b>		110	35	mg/Kg	☼	09/08/15 18:20	09/10/15 12:39	10
<b>Manganese</b>	<b>450</b>		0.55	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Nickel</b>	<b>16</b>		0.55	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Thallium</b>	<b>1.1</b>		0.55	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Vanadium</b>	<b>22</b>		0.27	0.080	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Zinc</b>	<b>41</b>		1.1	0.35	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Potassium</b>	<b>2600</b>		27	4.5	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1
<b>Sodium</b>	<b>2500</b>	<b>B</b>	55	7.2	mg/Kg	☼	09/08/15 18:20	09/09/15 15:52	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Barium</b>	<b>0.63</b>	<b>B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Cadmium</b>	<b>0.0029</b>	<b>J</b>	0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>760</b>	<b>B</b>	60	5.0	mg/L		09/10/15 13:00	09/14/15 13:02	10
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Cobalt</b>	<b>0.060</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:41	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Iron</b>	<b>1.8</b>		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Lead</b>	<b>0.041</b>		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Magnesium</b>	<b>270</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Nickel</b>	<b>0.043</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Potassium</b>	<b>2.2</b>	<b>J B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:41	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:07	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:41	1
<b>Zinc</b>	<b>0.21</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:41	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.067</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Barium</b>	<b>0.72</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Beryllium</b>	<b>0.0069</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 14:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Calcium</b>	<b>45</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Cobalt</b>	<b>0.083</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Lead</b>	<b>0.21</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Magnesium</b>	<b>43</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Potassium</b>	<b>33</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:43	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 14:43	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:43	1
<b>Zinc</b>	<b>1.1</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 14:43	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:52	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:03	1
<b>Thallium</b>	<b>0.0037</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:03	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 11:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/09/15 21:40	09/09/15 23:38	1
pH	8.77		0.200	0.200	SU			09/10/15 15:52	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B39 (0-2)**

**Lab Sample ID: 500-100826-31**

Date Collected: 09/03/15 10:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.6

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.022</b>		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
<b>2-Butanone (MEK)</b>	<b>0.0047</b>		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Dibromochloromethane	<0.0046		0.0046	0.00052	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Methylene Chloride	<0.0046		0.0046	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	09/04/15 14:10	09/09/15 16:09	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/09/15 16:09	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/04/15 14:10	09/09/15 16:09	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/09/15 16:09	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.19		0.19	0.035	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Acenaphthylene	<0.19		0.19	0.026	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Anthracene	<0.19		0.19	0.032	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
<b>Benzo[a]anthracene</b>	<b>0.041</b>	<b>J</b>	0.19	0.026	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B39 (0-2)**

**Lab Sample ID: 500-100826-31**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Benzo[b]fluoranthene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Benzo[g,h,i]perylene	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Benzo[k]fluoranthene	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Bis(2-chloroethoxy)methane	<0.98		0.98	0.20	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Bis(2-chloroethyl)ether	<0.98		0.98	0.29	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Bis(2-ethylhexyl) phthalate	<0.98		0.98	0.36	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
4-Bromophenyl phenyl ether	<0.98		0.98	0.26	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Butyl benzyl phthalate	<0.98		0.98	0.37	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Carbazole	<0.98		0.98	0.49	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
4-Chloroaniline	<3.9		3.9	0.91	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
4-Chloro-3-methylphenol	<1.9		1.9	0.66	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2-Chloronaphthalene	<0.98		0.98	0.21	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2-Chlorophenol	<0.98		0.98	0.33	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
4-Chlorophenyl phenyl ether	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Chrysene	<0.19		0.19	0.053	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Dibenz(a,h)anthracene	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Dibenzofuran	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
1,2-Dichlorobenzene	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
1,3-Dichlorobenzene	<0.98		0.98	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
1,4-Dichlorobenzene	<0.98		0.98	0.25	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
3,3'-Dichlorobenzidine	<0.98		0.98	0.27	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,4-Dichlorophenol	<1.9		1.9	0.46	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Diethyl phthalate	<0.98		0.98	0.33	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,4-Dimethylphenol	<1.9		1.9	0.74	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Dimethyl phthalate	<0.98		0.98	0.25	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Di-n-butyl phthalate	<0.98		0.98	0.30	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
4,6-Dinitro-2-methylphenol	<3.9		3.9	1.6	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,4-Dinitrophenol	<3.9		3.9	3.4	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,4-Dinitrotoluene	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,6-Dinitrotoluene	<0.98		0.98	0.38	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Di-n-octyl phthalate	<0.98		0.98	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
<b>Fluoranthene</b>	<b>0.048</b>	<b>J</b>	0.19	0.036	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Fluorene	<0.19		0.19	0.027	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Hexachlorobenzene	<0.39		0.39	0.045	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Hexachlorobutadiene	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Hexachlorocyclopentadiene	<3.9		3.9	1.1	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Hexachloroethane	<0.98		0.98	0.30	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Indeno[1,2,3-cd]pyrene	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Isophorone	<0.98		0.98	0.22	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2-Methylnaphthalene	<0.19		0.19	0.036	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2-Methylphenol	<0.98		0.98	0.31	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
3 & 4 Methylphenol	<0.98		0.98	0.32	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Naphthalene	<0.19		0.19	0.030	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2-Nitroaniline	<0.98		0.98	0.26	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
3-Nitroaniline	<1.9		1.9	0.60	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
4-Nitroaniline	<1.9		1.9	0.81	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Nitrobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2-Nitrophenol	<1.9		1.9	0.46	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B39 (0-2)**

**Lab Sample ID: 500-100826-31**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<3.9		3.9	1.8	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
N-Nitrosodi-n-propylamine	<0.98		0.98	0.24	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
N-Nitrosodiphenylamine	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,2'-oxybis[1-chloropropane]	<0.98		0.98	0.23	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Pentachlorophenol	<3.9		3.9	3.1	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Phenanthrene	<0.19		0.19	0.027	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
Phenol	<0.98		0.98	0.43	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
<b>Pyrene</b>	<b>0.089</b>	<b>J</b>	0.19	0.039	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
1,2,4-Trichlorobenzene	<0.98		0.98	0.21	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,4,5-Trichlorophenol	<1.9		1.9	0.44	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
2,4,6-Trichlorophenol	<1.9		1.9	0.67	mg/Kg	☼	09/08/15 15:52	09/12/15 07:06	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	76		25 - 119				09/08/15 15:52	09/12/15 07:06	5
2-Fluorophenol	72		25 - 110				09/08/15 15:52	09/12/15 07:06	5
Nitrobenzene-d5	70		25 - 115				09/08/15 15:52	09/12/15 07:06	5
Phenol-d5	87		31 - 110				09/08/15 15:52	09/12/15 07:06	5
Terphenyl-d14	187	X	36 - 134				09/08/15 15:52	09/12/15 07:06	5
2,4,6-Tribromophenol	93		35 - 137				09/08/15 15:52	09/12/15 07:06	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Arsenic</b>	<b>6.4</b>		0.56	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Barium</b>	<b>64</b>		0.56	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Beryllium</b>	<b>0.67</b>		0.22	0.049	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Cadmium</b>	<b>0.33</b>		0.11	0.032	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Chromium</b>	<b>18</b>		0.56	0.096	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Cobalt</b>	<b>9.0</b>		0.28	0.063	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Copper</b>	<b>21</b>		0.56	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Iron</b>	<b>18000</b>		11	4.3	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Lead</b>	<b>24</b>		0.28	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Magnesium</b>	<b>37000</b>		5.6	2.3	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Calcium</b>	<b>79000</b>		110	36	mg/Kg	☼	09/08/15 18:20	09/10/15 12:43	10
<b>Manganese</b>	<b>550</b>		0.56	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Nickel</b>	<b>23</b>		0.56	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Thallium</b>	<b>1.1</b>		0.56	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Vanadium</b>	<b>23</b>		0.28	0.082	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Zinc</b>	<b>42</b>		1.1	0.36	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Potassium</b>	<b>2900</b>		28	4.6	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1
<b>Sodium</b>	<b>2600</b>	<b>B</b>	56	7.4	mg/Kg	☼	09/08/15 18:20	09/09/15 15:59	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Barium</b>	<b>0.63</b>		0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B39 (0-2)**

**Lab Sample ID: 500-100826-31**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>410</b>		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 16:46	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:46	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:46	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Magnesium</b>	<b>57</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Manganese</b>	<b>6.1</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Potassium</b>	<b>3.9</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:46	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:46	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:46	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:46	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.067</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Beryllium</b>	<b>0.0078</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 14:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Calcium</b>	<b>55</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Cobalt</b>	<b>0.078</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Lead</b>	<b>0.41</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Magnesium</b>	<b>49</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Potassium</b>	<b>38</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 14:49	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:49	1
<b>Zinc</b>	<b>0.49</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 14:49	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:53	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:04	1
<b>Thallium</b>	<b>0.0033</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:04	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B39 (0-2)**

**Lab Sample ID: 500-100826-31**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.018	0.0064	mg/Kg	☼	09/09/15 14:00	09/10/15 11:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	09/09/15 21:40	09/09/15 23:39	1
pH	8.83		0.200	0.200	SU			09/10/15 15:57	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B40 (0-2)**

**Lab Sample ID: 500-100826-32**

**Date Collected: 09/03/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0044	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Benzene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Bromodichloromethane	<0.0057		0.0057	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Bromoform	<0.0057		0.0057	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Carbon disulfide	<0.0057		0.0057	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Carbon tetrachloride	<0.0057		0.0057	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Chlorobenzene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Chloroethane	<0.0057		0.0057	0.0024	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Chloroform	<0.0057		0.0057	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Chloromethane	<0.0057		0.0057	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Dibromochloromethane	<0.0057		0.0057	0.00066	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,1-Dichloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,2-Dichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,1-Dichloroethene	<0.0057		0.0057	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,2-Dichloropropane	<0.0057		0.0057	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Ethylbenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Methylene Chloride	<0.0057		0.0057	0.0043	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Methyl tert-butyl ether	<0.0057		0.0057	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Styrene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Tetrachloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Toluene	<0.0057		0.0057	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Trichloroethene	<0.0057		0.0057	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Vinyl acetate	<0.0057		0.0057	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Vinyl chloride	<0.0057		0.0057	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/09/15 16:35	1
Dibromofluoromethane	104		75 - 120	09/04/15 14:10	09/09/15 16:35	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	09/04/15 14:10	09/09/15 16:35	1
Toluene-d8 (Surr)	88		75 - 122	09/04/15 14:10	09/09/15 16:35	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Anthracene</b>	<b>0.014</b>	<b>J</b>	0.041	0.0068	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Benzo[a]anthracene</b>	<b>0.022</b>	<b>J</b>	0.041	0.0055	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B40 (0-2)**

**Lab Sample ID: 500-100826-32**

**Date Collected: 09/03/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.019</b>	<b>J</b>	0.041	0.0079	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Benzo[b]fluoranthene</b>	<b>0.034</b>	<b>J</b>	0.041	0.0088	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Chrysene</b>	<b>0.030</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Fluoranthene</b>	<b>0.037</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>2-Methylnaphthalene</b>	<b>0.015</b>	<b>J</b>	0.041	0.0075	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Naphthalene</b>	<b>0.0073</b>	<b>J</b>	0.041	0.0063	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B40 (0-2)**

**Lab Sample ID: 500-100826-32**

Date Collected: 09/03/15 10:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 79.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Phenanthrene</b>	<b>0.047</b>		0.041	0.0057	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
<b>Pyrene</b>	<b>0.035</b>	<b>J</b>	0.041	0.0081	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	09/08/15 15:52	09/11/15 02:15	1
2-Fluorophenol	76		25 - 110	09/08/15 15:52	09/11/15 02:15	1
Nitrobenzene-d5	60		25 - 115	09/08/15 15:52	09/11/15 02:15	1
Phenol-d5	83		31 - 110	09/08/15 15:52	09/11/15 02:15	1
Terphenyl-d14	93		36 - 134	09/08/15 15:52	09/11/15 02:15	1
2,4,6-Tribromophenol	90		35 - 137	09/08/15 15:52	09/11/15 02:15	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Arsenic</b>	<b>7.6</b>		0.59	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Barium</b>	<b>95</b>		0.59	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Beryllium</b>	<b>0.85</b>		0.23	0.051	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Cadmium</b>	<b>0.36</b>		0.12	0.034	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Chromium</b>	<b>22</b>		0.59	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Cobalt</b>	<b>10</b>		0.29	0.066	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Copper</b>	<b>19</b>		0.59	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Iron</b>	<b>21000</b>		12	4.5	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Lead</b>	<b>31</b>		0.29	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Magnesium</b>	<b>17000</b>		5.9	2.4	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Calcium</b>	<b>25000</b>		12	3.8	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Manganese</b>	<b>480</b>		0.59	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Nickel</b>	<b>22</b>		0.59	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Thallium</b>	<b>1.5</b>		0.59	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Vanadium</b>	<b>30</b>		0.29	0.086	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Zinc</b>	<b>53</b>		1.2	0.37	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Potassium</b>	<b>2700</b>		29	4.8	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1
<b>Sodium</b>	<b>510</b>	<b>B</b>	59	7.7	mg/Kg	☼	09/08/15 18:20	09/09/15 16:05	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:51	1
<b>Barium</b>	<b>0.30</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B40 (0-2)**

**Lab Sample ID: 500-100826-32**

**Date Collected: 09/03/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>460</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 13:00	09/11/15 16:51	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:51	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:51	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:51	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:51	1
<b>Magnesium</b>	<b>130</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:51	1
<b>Manganese</b>	<b>0.069</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:51	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:51	1
<b>Potassium</b>	<b>1.6</b>	<b>J B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:51	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:55	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:51	1
<b>Zinc</b>	<b>0.57</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:51	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.043</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 14:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Calcium</b>	<b>41</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Cobalt</b>	<b>0.035</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Magnesium</b>	<b>37</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Potassium</b>	<b>27</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 14:56	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 14:56	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 14:56	1
<b>Zinc</b>	<b>0.72</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 14:56	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:54	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:05	1
<b>Thallium</b>	<b>0.0025</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:05	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:27	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B40 (0-2)**

**Lab Sample ID: 500-100826-32**

**Date Collected: 09/03/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:50	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0065	mg/Kg	☼	09/09/15 14:00	09/10/15 11:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/09/15 21:40	09/09/15 23:39	1
pH	8.22		0.200	0.200	SU			09/10/15 16:01	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

Date Collected: 09/03/15 10:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 90.8

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/04/15 14:10	09/09/15 17:01	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 17:01	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	09/04/15 14:10	09/09/15 17:01	1
Toluene-d8 (Surr)	87		75 - 122	09/04/15 14:10	09/09/15 17:01	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Benzo[a]anthracene</b>	<b>0.020</b>	<b>J</b>	0.035	0.0048	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

**Date Collected: 09/03/15 10:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 90.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Benzo[b]fluoranthene</b>	<b>0.037</b>		0.035	0.0077	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Benzo[k]fluoranthene</b>	<b>0.014 J</b>		0.035	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Chrysene</b>	<b>0.024 J</b>		0.035	0.0097	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Fluoranthene</b>	<b>0.045</b>		0.035	0.0066	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2-Methylnaphthalene	<0.035		0.035	0.0066	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

**Date Collected: 09/03/15 10:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 90.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Phenanthrene</b>	<b>0.023</b>	<b>J</b>	0.035	0.0050	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Pyrene</b>	<b>0.052</b>		0.035	0.0071	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	09/08/15 15:52	09/11/15 07:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	73		25 - 119				09/08/15 15:52	09/11/15 07:04	1
2-Fluorophenol	74		25 - 110				09/08/15 15:52	09/11/15 07:04	1
Nitrobenzene-d5	63		25 - 115				09/08/15 15:52	09/11/15 07:04	1
Phenol-d5	70		31 - 110				09/08/15 15:52	09/11/15 07:04	1
Terphenyl-d14	121		36 - 134				09/08/15 15:52	09/11/15 07:04	1
2,4,6-Tribromophenol	78		35 - 137				09/08/15 15:52	09/11/15 07:04	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Arsenic</b>	<b>5.2</b>		0.53	0.25	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Barium</b>	<b>43</b>		0.53	0.097	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Beryllium</b>	<b>0.66</b>		0.21	0.046	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.031	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Chromium</b>	<b>18</b>		0.53	0.091	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Cobalt</b>	<b>8.4</b>		0.27	0.060	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Copper</b>	<b>20</b>		0.53	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Iron</b>	<b>17000</b>		11	4.1	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Lead</b>	<b>9.8</b>		0.27	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Magnesium</b>	<b>44000</b>		5.3	2.2	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Calcium</b>	<b>93000</b>		110	34	mg/Kg	☼	09/08/15 18:20	09/10/15 12:47	10
<b>Manganese</b>	<b>400</b>		0.53	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Nickel</b>	<b>22</b>		0.53	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Thallium</b>	<b>0.92</b>		0.53	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Vanadium</b>	<b>20</b>		0.27	0.077	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Zinc</b>	<b>36</b>		1.1	0.34	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Potassium</b>	<b>3600</b>		27	4.3	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1
<b>Sodium</b>	<b>610</b>	<b>B</b>	53	7.0	mg/Kg	☼	09/08/15 18:20	09/09/15 16:12	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 16:55	1
<b>Barium</b>	<b>0.34</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 16:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 16:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

Date Collected: 09/03/15 10:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 90.8

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>940</b>	<b>B</b>	60	5.0	mg/L		09/10/15 13:00	09/14/15 13:06	10
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:55	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:55	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:55	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 16:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 16:55	1
<b>Magnesium</b>	<b>200</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:55	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:55	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:55	1
<b>Potassium</b>	<b>1.9</b>	<b>J B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 16:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 16:55	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:59	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 16:55	1
<b>Zinc</b>	<b>0.13</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 16:55	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.032</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Beryllium</b>	<b>0.0040</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 15:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Calcium</b>	<b>46</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Chromium</b>	<b>0.091</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Cobalt</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Copper</b>	<b>0.094</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Iron</b>	<b>80</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Magnesium</b>	<b>33</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Nickel</b>	<b>0.092</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Potassium</b>	<b>21</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 15:03	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Vanadium</b>	<b>0.10</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:03	1
<b>Zinc</b>	<b>0.25</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 15:03	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:55	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:06	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

Date Collected: 09/03/15 10:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 90.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:52	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.016	0.0058	mg/Kg	☼	09/09/15 14:00	09/10/15 11:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/09/15 21:40	09/09/15 23:40	1
pH	8.47		0.200	0.200	SU			09/10/15 16:05	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

**Date Collected: 09/03/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.026		0.026	0.0051	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Benzene	<0.0066		0.0066	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Bromodichloromethane	<0.0066		0.0066	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Bromoform	<0.0066		0.0066	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Bromomethane	<0.0066		0.0066	0.0024	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
2-Butanone (MEK)	<0.0066		0.0066	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Carbon disulfide	<0.0066		0.0066	0.0024	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Carbon tetrachloride	<0.0066		0.0066	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Chlorobenzene	<0.0066		0.0066	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Chloroethane	<0.0066		0.0066	0.0028	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Chloroform	<0.0066		0.0066	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Chloromethane	<0.0066		0.0066	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
cis-1,2-Dichloroethene	<0.0066		0.0066	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
cis-1,3-Dichloropropene	<0.0066		0.0066	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Dibromochloromethane	<0.0066		0.0066	0.00075	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,1-Dichloroethane	<0.0066		0.0066	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,2-Dichloroethane	<0.0066		0.0066	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,1-Dichloroethene	<0.0066		0.0066	0.0024	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,2-Dichloropropane	<0.0066		0.0066	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,3-Dichloropropene, Total	<0.0066		0.0066	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Ethylbenzene	<0.0066		0.0066	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
2-Hexanone	<0.0066		0.0066	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Methylene Chloride	<0.0066		0.0066	0.0050	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
4-Methyl-2-pentanone (MIBK)	<0.0066		0.0066	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Methyl tert-butyl ether	<0.0066		0.0066	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Styrene	<0.0066		0.0066	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,1,2,2-Tetrachloroethane	<0.0066		0.0066	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Tetrachloroethene	<0.0066		0.0066	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Toluene	<0.0066		0.0066	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
trans-1,2-Dichloroethene	<0.0066		0.0066	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
trans-1,3-Dichloropropene	<0.0066		0.0066	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,1,1-Trichloroethane	<0.0066		0.0066	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
1,1,2-Trichloroethane	<0.0066		0.0066	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Trichloroethene	<0.0066		0.0066	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Vinyl acetate	<0.0066		0.0066	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Vinyl chloride	<0.0066		0.0066	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1
Xylenes, Total	<0.013		0.013	0.0024	mg/Kg	☼	09/04/15 14:10	09/09/15 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	09/04/15 14:10	09/09/15 17:27	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/09/15 17:27	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	09/04/15 14:10	09/09/15 17:27	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/09/15 17:27	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
<b>Anthracene</b>	<b>0.0083</b>	<b>J</b>	0.038	0.0065	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
<b>Benzo[a]anthracene</b>	<b>0.055</b>		0.038	0.0052	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

**Date Collected: 09/03/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.064		0.038	0.0075	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Benzo[b]fluoranthene	0.11		0.038	0.0084	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Benzo[g,h,i]perylene	0.032	J	0.038	0.012	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Chrysene	0.072		0.038	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Fluoranthene	0.12		0.038	0.0072	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.038	0.010	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

Date Collected: 09/03/15 10:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.0

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
<b>Phenanthrene</b>	<b>0.049</b>		0.038	0.0054	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
<b>Pyrene</b>	<b>0.10</b>		0.038	0.0077	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 02:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	69		25 - 119				09/08/15 15:52	09/11/15 02:42	1
2-Fluorophenol	71		25 - 110				09/08/15 15:52	09/11/15 02:42	1
Nitrobenzene-d5	60		25 - 115				09/08/15 15:52	09/11/15 02:42	1
Phenol-d5	69		31 - 110				09/08/15 15:52	09/11/15 02:42	1
Terphenyl-d14	96		36 - 134				09/08/15 15:52	09/11/15 02:42	1
2,4,6-Tribromophenol	86		35 - 137				09/08/15 15:52	09/11/15 02:42	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Arsenic</b>	<b>11</b>		0.57	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Barium</b>	<b>95</b>		0.57	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Beryllium</b>	<b>0.85</b>		0.23	0.049	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Cadmium</b>	<b>0.58</b>		0.11	0.033	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Chromium</b>	<b>25</b>		0.57	0.098	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Cobalt</b>	<b>13</b>		0.28	0.064	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Copper</b>	<b>27</b>		0.57	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Iron</b>	<b>28000</b>		11	4.4	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Lead</b>	<b>29</b>		0.28	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Magnesium</b>	<b>16000</b>		5.7	2.3	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Calcium</b>	<b>20000</b>		11	3.7	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Manganese</b>	<b>950</b>		0.57	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Nickel</b>	<b>31</b>		0.57	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Silver</b>	<b>0.091</b>	<b>J</b>	0.28	0.067	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Thallium</b>	<b>2.5</b>		0.57	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Vanadium</b>	<b>28</b>		0.28	0.083	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Zinc</b>	<b>61</b>		1.1	0.36	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Potassium</b>	<b>3300</b>		28	4.6	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1
<b>Sodium</b>	<b>780</b>	<b>B</b>	57	7.5	mg/Kg	☼	09/08/15 18:20	09/09/15 16:19	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 17:00	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 17:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 17:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

**Date Collected: 09/03/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>290</b>		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 17:00	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:00	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:00	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:00	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 17:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 17:00	1
<b>Magnesium</b>	<b>160</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:00	1
<b>Manganese</b>	<b>0.028</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:00	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:00	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:00	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 17:00	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:00	1
<b>Zinc</b>	<b>0.79</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 17:00	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.022</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 15:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 15:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Calcium</b>	<b>19</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Chromium</b>	<b>0.055</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Copper</b>	<b>0.049</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Iron</b>	<b>55</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Lead</b>	<b>0.028</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Magnesium</b>	<b>16</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Nickel</b>	<b>0.047</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Potassium</b>	<b>13</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 15:10	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Vanadium</b>	<b>0.067</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:10	1
<b>Zinc</b>	<b>0.21</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 15:10	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:56	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:07	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

**Date Collected: 09/03/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:54	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 11:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/09/15 21:40	09/09/15 23:41	1
pH	8.28		0.200	0.200	SU			09/10/15 16:10	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

**Date Collected: 09/03/15 09:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/04/15 14:10	09/09/15 17:52	1
Dibromofluoromethane	104		75 - 120	09/04/15 14:10	09/09/15 17:52	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 14:10	09/09/15 17:52	1
Toluene-d8 (Surr)	90		75 - 122	09/04/15 14:10	09/09/15 17:52	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
<b>Benzo[a]anthracene</b>	<b>0.014</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

**Date Collected: 09/03/15 09:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.015</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
<b>Benzo[b]fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.040	0.0087	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
<b>Fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

**Date Collected: 09/03/15 09:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
<b>Phenanthrene</b>	<b>0.0085</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 03:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	81		25 - 119				09/08/15 15:52	09/11/15 03:08	1
2-Fluorophenol	88		25 - 110				09/08/15 15:52	09/11/15 03:08	1
Nitrobenzene-d5	73		25 - 115				09/08/15 15:52	09/11/15 03:08	1
Phenol-d5	91		31 - 110				09/08/15 15:52	09/11/15 03:08	1
Terphenyl-d14	102		36 - 134				09/08/15 15:52	09/11/15 03:08	1
2,4,6-Tribromophenol	92		35 - 137				09/08/15 15:52	09/11/15 03:08	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.44</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Arsenic</b>	<b>8.1</b>		0.60	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Barium</b>	<b>78</b>		0.60	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Beryllium</b>	<b>0.98</b>		0.24	0.052	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Cadmium</b>	<b>0.32</b>		0.12	0.035	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Chromium</b>	<b>26</b>		0.60	0.10	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Cobalt</b>	<b>14</b>		0.30	0.067	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Copper</b>	<b>22</b>		0.60	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Iron</b>	<b>25000</b>		12	4.6	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Lead</b>	<b>17</b>		0.30	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Magnesium</b>	<b>7900</b>		6.0	2.4	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Calcium</b>	<b>8300</b>		12	3.8	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Manganese</b>	<b>580</b>		0.60	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Nickel</b>	<b>27</b>		0.60	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Thallium</b>	<b>1.7</b>		0.60	0.29	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Vanadium</b>	<b>32</b>		0.30	0.087	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Zinc</b>	<b>52</b>		1.2	0.38	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Potassium</b>	<b>3200</b>		30	4.9	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1
<b>Sodium</b>	<b>1800</b>	<b>B</b>	60	7.9	mg/Kg	☼	09/08/15 18:20	09/09/15 16:41	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 17:12	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 17:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 17:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 17:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

Date Collected: 09/03/15 09:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>230</b>		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 17:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:12	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:12	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 17:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 17:12	1
<b>Magnesium</b>	<b>96</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:12	1
<b>Manganese</b>	<b>0.065</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:12	1
<b>Potassium</b>	<b>2.8</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 17:12	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:16	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:12	1
<b>Zinc</b>	<b>0.13</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 17:12	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.053</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Beryllium</b>	<b>0.0075</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 15:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Calcium</b>	<b>31</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Cobalt</b>	<b>0.046</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Copper</b>	<b>0.15</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Lead</b>	<b>0.096</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Magnesium</b>	<b>34</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Manganese</b>	<b>0.85</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Potassium</b>	<b>34</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 15:16	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Vanadium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:16	1
<b>Zinc</b>	<b>0.46</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 15:16	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:59	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:08	1
<b>Thallium</b>	<b>0.0038</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:08	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

Date Collected: 09/03/15 09:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:56	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0066	mg/Kg	☼	09/09/15 14:00	09/10/15 11:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/09/15 21:40	09/09/15 23:41	1
pH	8.31		0.200	0.200	SU			09/10/15 16:19	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

**Date Collected: 09/03/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/04/15 14:10	09/09/15 18:18	1
Dibromofluoromethane	101		75 - 120	09/04/15 14:10	09/09/15 18:18	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 14:10	09/09/15 18:18	1
Toluene-d8 (Surr)	87		75 - 122	09/04/15 14:10	09/09/15 18:18	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.033	J	0.037	0.0066	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Anthracene	0.10		0.037	0.0062	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Benzo[a]anthracene	0.17		0.037	0.0050	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

**Date Collected: 09/03/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.14</b>		0.037	0.0072	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Benzo[b]fluoranthene</b>	<b>0.19</b>		0.037	0.0080	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Benzo[g,h,i]perylene</b>	<b>0.038</b>		0.037	0.012	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Benzo[k]fluoranthene</b>	<b>0.091</b>		0.037	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Chrysene</b>	<b>0.15</b>		0.037	0.010	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Dibenz(a,h)anthracene</b>	<b>0.014 J</b>		0.037	0.0071	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Fluoranthene</b>	<b>0.41</b>		0.037	0.0069	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Fluorene</b>	<b>0.057</b>		0.037	0.0052	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.050</b>		0.037	0.0096	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>2-Methylnaphthalene</b>	<b>0.0083 J</b>		0.037	0.0068	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Naphthalene</b>	<b>0.014 J</b>		0.037	0.0057	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

Date Collected: 09/03/15 09:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Phenanthrene</b>	<b>0.36</b>		0.037	0.0052	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Pyrene</b>	<b>0.32</b>		0.037	0.0073	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 03:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	61		25 - 119				09/08/15 15:52	09/11/15 03:34	1
2-Fluorophenol	67		25 - 110				09/08/15 15:52	09/11/15 03:34	1
Nitrobenzene-d5	53		25 - 115				09/08/15 15:52	09/11/15 03:34	1
Phenol-d5	68		31 - 110				09/08/15 15:52	09/11/15 03:34	1
Terphenyl-d14	82		36 - 134				09/08/15 15:52	09/11/15 03:34	1
2,4,6-Tribromophenol	65		35 - 137				09/08/15 15:52	09/11/15 03:34	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.34</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Arsenic</b>	<b>7.4</b>		0.53	0.25	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Barium</b>	<b>65</b>		0.53	0.098	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Beryllium</b>	<b>0.73</b>		0.21	0.046	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Cadmium</b>	<b>0.44</b>		0.11	0.031	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Chromium</b>	<b>21</b>		0.53	0.092	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Cobalt</b>	<b>11</b>		0.27	0.060	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Copper</b>	<b>25</b>		0.53	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Iron</b>	<b>20000</b>		11	4.1	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Lead</b>	<b>28</b>		0.27	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Magnesium</b>	<b>35000</b>		5.3	2.2	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Calcium</b>	<b>75000</b>		110	34	mg/Kg	☼	09/08/15 18:20	09/10/15 12:51	10
<b>Manganese</b>	<b>690</b>		0.53	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Nickel</b>	<b>24</b>		0.53	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Thallium</b>	<b>1.4</b>		0.53	0.26	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Vanadium</b>	<b>24</b>		0.27	0.078	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Zinc</b>	<b>50</b>		1.1	0.34	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Potassium</b>	<b>3500</b>		27	4.4	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1
<b>Sodium</b>	<b>1600</b>	<b>B</b>	53	7.1	mg/Kg	☼	09/08/15 18:20	09/09/15 16:48	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Barium</b>	<b>0.37</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 17:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 17:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

Date Collected: 09/03/15 09:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.5

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>470</b>	<b>B</b>	6.0	0.50	mg/L		09/10/15 13:00	09/11/15 17:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:17	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Magnesium</b>	<b>100</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Manganese</b>	<b>4.7</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Potassium</b>	<b>3.3</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 17:17	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:20	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:17	1
<b>Zinc</b>	<b>0.24</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 17:17	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.071</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Barium</b>	<b>0.62</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Beryllium</b>	<b>0.0068</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 15:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Calcium</b>	<b>60</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Cobalt</b>	<b>0.067</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Copper</b>	<b>0.17</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Lead</b>	<b>0.17</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Magnesium</b>	<b>47</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Potassium</b>	<b>33</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 15:39	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Vanadium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:39	1
<b>Zinc</b>	<b>0.69</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 15:39	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 10:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 10:00	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:09	1
<b>Thallium</b>	<b>0.0033</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:09	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

Date Collected: 09/03/15 09:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:58	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0059	mg/Kg	☼	09/09/15 14:00	09/10/15 11:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/09/15 21:40	09/09/15 23:42	1
pH	8.68		0.200	0.200	SU			09/10/15 16:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Bromomethane	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Carbon disulfide	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,2-Dichloroethane	<0.0048		0.0048	0.00070	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 14:10	09/09/15 18:43	1
Dibromofluoromethane	109		75 - 120	09/04/15 14:10	09/09/15 18:43	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	09/04/15 14:10	09/09/15 18:43	1
Toluene-d8 (Surr)	87		75 - 122	09/04/15 14:10	09/09/15 18:43	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0075	J	0.037	0.0067	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Anthracene	0.027	J	0.037	0.0063	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Benzo[a]anthracene	0.054		0.037	0.0050	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.039</b>		0.037	0.0073	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.062</b>		0.037	0.0081	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	<b>J</b>	0.037	0.012	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Benzo[k]fluoranthene</b>	<b>0.028</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Chrysene</b>	<b>0.052</b>		0.037	0.010	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Fluoranthene</b>	<b>0.11</b>		0.037	0.0069	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Fluorene</b>	<b>0.014</b>	<b>J</b>	0.037	0.0053	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.017</b>	<b>J</b>	0.037	0.0097	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

Date Collected: 09/03/15 11:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Phenanthrene</b>	<b>0.099</b>		0.037	0.0052	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
<b>Pyrene</b>	<b>0.10</b>		0.037	0.0074	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/08/15 15:52	09/11/15 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	09/08/15 15:52	09/11/15 04:00	1
2-Fluorophenol	83		25 - 110	09/08/15 15:52	09/11/15 04:00	1
Nitrobenzene-d5	69		25 - 115	09/08/15 15:52	09/11/15 04:00	1
Phenol-d5	79		31 - 110	09/08/15 15:52	09/11/15 04:00	1
Terphenyl-d14	103		36 - 134	09/08/15 15:52	09/11/15 04:00	1
2,4,6-Tribromophenol	82		35 - 137	09/08/15 15:52	09/11/15 04:00	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.37</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Arsenic</b>	<b>7.4</b>		0.58	0.27	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Barium</b>	<b>63</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Beryllium</b>	<b>0.77</b>		0.23	0.050	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Cadmium</b>	<b>0.47</b>		0.12	0.033	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Chromium</b>	<b>21</b>		0.58	0.099	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Cobalt</b>	<b>11</b>		0.29	0.065	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Copper</b>	<b>23</b>		0.58	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Iron</b>	<b>22000</b>		12	4.4	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Lead</b>	<b>11</b>		0.29	0.14	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Magnesium</b>	<b>28000</b>		5.8	2.3	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Calcium</b>	<b>54000</b>		12	3.7	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Manganese</b>	<b>410</b>		0.58	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Nickel</b>	<b>26</b>		0.58	0.16	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
Selenium	<0.58		0.58	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Thallium</b>	<b>1.2</b>		0.58	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Vanadium</b>	<b>25</b>		0.29	0.084	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Zinc</b>	<b>54</b>		1.2	0.36	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Potassium</b>	<b>3200</b>		29	4.7	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1
<b>Sodium</b>	<b>2700</b>	<b>B</b>	58	7.6	mg/Kg	☼	09/08/15 18:20	09/09/15 16:55	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 17:21	1
<b>Barium</b>	<b>0.30</b>	<b>J B</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 17:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 17:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 17:21	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>620</b>	<b>B</b>	60	5.0	mg/L		09/10/15 13:00	09/14/15 13:10	10
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:21	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:21	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:21	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 17:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 17:21	1
<b>Magnesium</b>	<b>44</b>	<b>B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:21	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:21	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:21	1
<b>Potassium</b>	<b>1.5</b>	<b>J B</b>	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 17:21	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:21	1
<b>Zinc</b>	<b>0.12</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 17:21	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.021</b>	<b>J</b>	0.050	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 15:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 15:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Calcium</b>	<b>51</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Chromium</b>	<b>0.063</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Copper</b>	<b>0.074</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Iron</b>	<b>56</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Lead</b>	<b>0.038</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Magnesium</b>	<b>22</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Nickel</b>	<b>0.064</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Potassium</b>	<b>16</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:46	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 15:46	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Vanadium</b>	<b>0.078</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:46	1
<b>Zinc</b>	<b>0.29</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 15:46	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 10:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 10:01	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:10	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 14:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.023</b>		0.018	0.0064	mg/Kg	☼	09/09/15 14:00	09/10/15 11:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/09/15 21:40	09/09/15 23:42	1
pH	<b>8.68</b>		0.200	0.200	SU			09/10/15 16:32	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/04/15 14:10	09/09/15 19:09	1
Dibromofluoromethane	105		75 - 120	09/04/15 14:10	09/09/15 19:09	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	09/04/15 14:10	09/09/15 19:09	1
Toluene-d8 (Surr)	89		75 - 122	09/04/15 14:10	09/09/15 19:09	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Anthracene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0065	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Benzo[a]anthracene</b>	<b>0.13</b>		0.039	0.0053	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.13</b>		0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Benzo[b]fluoranthene</b>	<b>0.25</b>		0.039	0.0085	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Benzo[g,h,i]perylene</b>	<b>0.092</b>		0.039	0.013	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Benzo[k]fluoranthene</b>	<b>0.10</b>		0.039	0.012	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Chrysene</b>	<b>0.16</b>		0.039	0.011	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Dibenz(a,h)anthracene</b>	<b>0.026 J</b>		0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Fluoranthene</b>	<b>0.18</b>		0.039	0.0073	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.089</b>		0.039	0.010	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>2-Methylnaphthalene</b>	<b>0.0080 J</b>		0.039	0.0072	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

Date Collected: 09/03/15 15:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 80.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Phenanthrene</b>	<b>0.11</b>		0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Pyrene</b>	<b>0.38</b>		0.039	0.0078	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/16/15 00:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	81		25 - 119				09/08/15 15:52	09/16/15 00:17	1
2-Fluorophenol	85		25 - 110				09/08/15 15:52	09/16/15 00:17	1
Nitrobenzene-d5	71		25 - 115				09/08/15 15:52	09/16/15 00:17	1
Phenol-d5	93		31 - 110				09/08/15 15:52	09/16/15 00:17	1
Terphenyl-d14	207	X	36 - 134				09/08/15 15:52	09/16/15 00:17	1
2,4,6-Tribromophenol	92		35 - 137				09/08/15 15:52	09/16/15 00:17	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Arsenic</b>	<b>15</b>		0.61	0.28	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Barium</b>	<b>67</b>		0.61	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Beryllium</b>	<b>0.82</b>		0.25	0.053	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Cadmium</b>	<b>0.67</b>		0.12	0.036	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Chromium</b>	<b>21</b>		0.61	0.11	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Cobalt</b>	<b>11</b>		0.31	0.069	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Copper</b>	<b>32</b>		0.61	0.13	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Iron</b>	<b>30000</b>		12	4.7	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Lead</b>	<b>50</b>		0.31	0.15	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Magnesium</b>	<b>23000</b>		6.1	2.5	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Calcium</b>	<b>33000</b>		12	3.9	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Manganese</b>	<b>540</b>		0.61	0.12	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Nickel</b>	<b>27</b>		0.61	0.17	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
Selenium	<0.61		0.61	0.30	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Thallium</b>	<b>1.7</b>		0.61	0.30	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Vanadium</b>	<b>29</b>		0.31	0.090	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Zinc</b>	<b>85</b>		1.2	0.39	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Potassium</b>	<b>2800</b>		31	5.0	mg/Kg	☼	09/08/15 18:20	09/09/15 17:16	1
<b>Sodium</b>	<b>2700</b>	<b>B</b>	61	8.1	mg/Kg	☼	09/08/15 18:20	09/10/15 12:55	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 17:26	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 17:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 17:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 17:26	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 17:26	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:26	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:26	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:26	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 17:26	1
<b>Lead</b>	<b>0.0089</b>		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 17:26	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:26	1
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:26	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:26	1
<b>Potassium</b>	<b>3.1</b>		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 17:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 17:26	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 17:26	1
<b>Zinc</b>	<b>0.14</b>	<b>J B</b>	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 17:26	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.072</b>		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Beryllium</b>	<b>0.0062</b>		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 15:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Calcium</b>	<b>26</b>		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Cobalt</b>	<b>0.041</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Lead</b>	<b>0.46</b>		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Magnesium</b>	<b>30</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Potassium</b>	<b>28</b>		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 15:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 15:52	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 15:52	1
<b>Zinc</b>	<b>2.9</b>	<b>B</b>	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 15:52	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 10:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 10:02	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 12:12	1
<b>Thallium</b>	<b>0.0051</b>		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 12:12	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 14:02	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.028</b>		0.018	0.0062	mg/Kg	☼	09/09/15 14:00	09/10/15 11:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/09/15 21:40	09/09/15 23:42	1
pH	<b>8.45</b>		0.200	0.200	SU			09/10/15 16:36	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## GC/MS VOA

### Prep Batch: 303247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	5035	
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	5035	
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	5035	
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	5035	
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	5035	
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	5035	
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	5035	
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	5035	
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	5035	
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	5035	
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	5035	
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	5035	
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	5035	
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	5035	
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	5035	
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	5035	
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	5035	
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	5035	
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	5035	
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	5035	

### Prep Batch: 303248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	5035	
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	5035	
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	5035	
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	5035	
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	5035	
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	5035	
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	5035	
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	5035	
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	5035	
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	5035	
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	5035	
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	5035	
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	5035	
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	5035	
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	5035	
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	5035	
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	5035	
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	5035	

### Analysis Batch: 303377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	8260B	303247
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	8260B	303247
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	8260B	303247
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	8260B	303247
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	8260B	303247
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	8260B	303247
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	8260B	303247

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## GC/MS VOA (Continued)

### Analysis Batch: 303377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	8260B	303247
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	8260B	303247
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	8260B	303247
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	8260B	303247
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	8260B	303247
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	8260B	303247
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	8260B	303247
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	8260B	303247
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	8260B	303247
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	8260B	303247
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	8260B	303247
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	8260B	303248
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	8260B	303248
LCS 500-303377/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-303377/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-303377/7	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 303488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	8260B	303247
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	8260B	303247
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	8260B	303248
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	8260B	303248
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	8260B	303248
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	8260B	303248
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	8260B	303248
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	8260B	303248
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	8260B	303248
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	8260B	303248
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	8260B	303248
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	8260B	303248
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	8260B	303248
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	8260B	303248
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	8260B	303248
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	8260B	303248
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	8260B	303248
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	8260B	303248
LCS 500-303488/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-303488/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-303488/6	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 303295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	3541	
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	3541	
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	3541	
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	3541	
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	3541	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 303295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	3541	
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	3541	
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	3541	
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	3541	
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	3541	
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	3541	
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	3541	
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	3541	
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	3541	
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	3541	
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	3541	
LCS 500-303295/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303295/1-A	Method Blank	Total/NA	Solid	3541	

### Prep Batch: 303412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	3541	
500-100826-23 MS	2618-7-B31 (0-2)	Total/NA	Solid	3541	
500-100826-23 MSD	2618-7-B31 (0-2)	Total/NA	Solid	3541	
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	3541	
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	3541	
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	3541	
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	3541	
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	3541	
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	3541	
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	3541	
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	3541	
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	3541	
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	3541	
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	3541	
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	3541	
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	3541	
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	3541	
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	3541	
LCS 500-303412/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303412/1-A	Method Blank	Total/NA	Solid	3541	

### Prep Batch: 303414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	3541	
500-100826-17 MS	2618-7-B25 (0-2)	Total/NA	Solid	3541	
500-100826-17 MSD	2618-7-B25 (0-2)	Total/NA	Solid	3541	
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	3541	
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	3541	
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	3541	
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	3541	
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	3541	
LCS 500-303414/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303414/1-A	Method Blank	Total/NA	Solid	3541	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 303450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303295/2-A	Lab Control Sample	Total/NA	Solid	8270D	303295
MB 500-303295/1-A	Method Blank	Total/NA	Solid	8270D	303295

### Prep Batch: 303467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	3541	
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	3541	
LCS 500-303467/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303467/1-A	Method Blank	Total/NA	Solid	3541	

### Analysis Batch: 303469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303414/2-A	Lab Control Sample	Total/NA	Solid	8270D	303414
MB 500-303414/1-A	Method Blank	Total/NA	Solid	8270D	303414

### Analysis Batch: 303573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303467/2-A	Lab Control Sample	Total/NA	Solid	8270D	303467
MB 500-303467/1-A	Method Blank	Total/NA	Solid	8270D	303467

### Analysis Batch: 303702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	8270D	303414
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	8270D	303414
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	8270D	303414
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	8270D	303414

### Analysis Batch: 303821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	8270D	303467
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	8270D	303467
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	8270D	303412
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	8270D	303412
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	8270D	303412
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	8270D	303412
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	8270D	303412
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	8270D	303412
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	8270D	303412
LCS 500-303412/2-A	Lab Control Sample	Total/NA	Solid	8270D	303412
MB 500-303412/1-A	Method Blank	Total/NA	Solid	8270D	303412

### Analysis Batch: 303944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	8270D	303295
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	8270D	303295
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	8270D	303295
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	8270D	303295
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	8270D	303295
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	8270D	303295
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	8270D	303295
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	8270D	303295

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 303944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	8270D	303295
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	8270D	303295
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	8270D	303295
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	8270D	303295
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	8270D	303295

### Analysis Batch: 303966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-17 MS	2618-7-B25 (0-2)	Total/NA	Solid	8270D	303414
500-100826-17 MSD	2618-7-B25 (0-2)	Total/NA	Solid	8270D	303414

### Analysis Batch: 303995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	8270D	303412
500-100826-23 MS	2618-7-B31 (0-2)	Total/NA	Solid	8270D	303412
500-100826-23 MSD	2618-7-B31 (0-2)	Total/NA	Solid	8270D	303412
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	8270D	303412
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	8270D	303412
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	8270D	303412
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	8270D	303412
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	8270D	303412
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	8270D	303412
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	8270D	303412

### Analysis Batch: 304240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	8270D	303295
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	8270D	303295
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	8270D	303295
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	8270D	303414
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	8270D	303414

### Analysis Batch: 304318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	8270D	303412

## Metals

### Prep Batch: 303340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	3050B	
500-100826-1 DU	2618-7-B08 (0-2)	Total/NA	Solid	3050B	
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	3050B	
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	3050B	
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	3050B	
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	3050B	
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	3050B	
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	3050B	
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	3050B	
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	3050B	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Prep Batch: 303340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	3050B	
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	3050B	
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	3050B	
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	3050B	
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	3050B	
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	3050B	
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	3050B	
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	3050B	
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	3050B	
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	3050B	
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	3050B	
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	3050B	
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	3050B	
LCS 500-303340/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-303340/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 303441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	3050B	
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	3050B	
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	3050B	
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	3050B	
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	3050B	
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	3050B	
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	3050B	
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	3050B	
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	3050B	
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	3050B	
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	3050B	
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	3050B	
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	3050B	
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	3050B	
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	3050B	
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	3050B	
LCS 500-303441/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-303441/1-A	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 303498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-1 DU	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	6010B	303340
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	6010B	303340
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	6010B	303340
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	6010B	303340
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	6010B	303340
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	6010B	303340
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	6010B	303340
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	6010B	303340

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 303498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	6010B	303340
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	6010B	303340
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	6010B	303340
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	6010B	303340
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	6010B	303340
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	6010B	303340
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	6010B	303340
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	6010B	303340
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	6010B	303340
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	6010B	303340
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	6010B	303340
LCS 500-303340/2-A	Lab Control Sample	Total/NA	Solid	6010B	303340
MB 500-303340/1-A	Method Blank	Total/NA	Solid	6010B	303340

### Prep Batch: 303542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	7471B	
500-100826-1 DU	2618-7-B08 (0-2)	Total/NA	Solid	7471B	
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	7471B	
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	7471B	
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	7471B	
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	7471B	
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	7471B	
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	7471B	
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	7471B	
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	7471B	
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	7471B	
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	7471B	
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	7471B	
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	7471B	
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	7471B	
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	7471B	
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	7471B	
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	7471B	
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	7471B	
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	7471B	
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	7471B	
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	7471B	
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	7471B	
LCS 500-303542/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-303542/12-A	Method Blank	Total/NA	Solid	7471B	

### Prep Batch: 303548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	7471B	
500-100826-21 DU	2618-7-B29 (0-2)	Total/NA	Solid	7471B	
500-100826-21 MS	2618-7-B29 (0-2)	Total/NA	Solid	7471B	
500-100826-21 MSD	2618-7-B29 (0-2)	Total/NA	Solid	7471B	
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	7471B	
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	7471B	
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	7471B	

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Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Prep Batch: 303548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	7471B	
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	7471B	
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	7471B	
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	7471B	
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	7471B	
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	7471B	
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	7471B	
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	7471B	
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	7471B	
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	7471B	
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	7471B	
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	7471B	
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	7471B	
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	7471B	
LCS 500-303548/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-303548/12-A	Method Blank	Total/NA	Solid	7471B	

### Leach Batch: 303591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	TCLP	Solid	1311	
500-100826-1 DU	2618-7-B08 (0-2)	TCLP	Solid	1311	
500-100826-1 MS	2618-7-B08 (0-2)	TCLP	Solid	1311	
500-100826-2	2618-7-B10 (0-2)	TCLP	Solid	1311	
500-100826-2 DU	2618-7-B10 (0-2)	TCLP	Solid	1311	
500-100826-2 MS	2618-7-B10 (0-2)	TCLP	Solid	1311	
500-100826-3	2618-7-B11 (0-2)	TCLP	Solid	1311	
500-100826-4	2618-7-B12 (0-2)	TCLP	Solid	1311	
500-100826-5	2618-7-B13 (0-2)	TCLP	Solid	1311	
500-100826-6	2618-7-B14 (0-2)	TCLP	Solid	1311	
500-100826-7	2618-7-B15 (0-2)	TCLP	Solid	1311	
500-100826-8	2618-7-B16 (0-2)	TCLP	Solid	1311	
500-100826-9	2618-7-B17 (0-2)	TCLP	Solid	1311	
500-100826-11	2618-7-B19 (0-2)	TCLP	Solid	1311	
500-100826-12	2618-7-B20 (0-2)	TCLP	Solid	1311	
500-100826-13	2618-7-B21 (0-2)	TCLP	Solid	1311	
500-100826-14	2618-7-B22 (0-2)	TCLP	Solid	1311	
500-100826-15	2618-7-B23 (0-2)	TCLP	Solid	1311	
500-100826-16	2618-7-B24 (0-2)	TCLP	Solid	1311	
500-100826-17	2618-7-B25 (0-2)	TCLP	Solid	1311	
500-100826-18	2618-7-B26 (0-2)	TCLP	Solid	1311	
500-100826-19	2618-7-B27 (0-2)	TCLP	Solid	1311	
500-100826-20	2618-7-B28 (0-2)	TCLP	Solid	1311	
LB 500-303591/1-B	Method Blank	TCLP	Solid	1311	
LB 500-303591/1-C	Method Blank	TCLP	Solid	1311	

### Leach Batch: 303600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-10	2618-7-B18 (0-2)	TCLP	Solid	1311	
LB2 500-303600/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-303600/1-C	Method Blank	TCLP	Solid	1311	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Leach Batch: 303601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	1311	
500-100826-21 DU	2618-7-B29 (0-2)	TCLP	Solid	1311	
500-100826-21 MS	2618-7-B29 (0-2)	TCLP	Solid	1311	
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	1311	
500-100826-22 DU	2618-7-B30 (0-2)	TCLP	Solid	1311	
500-100826-22 MS	2618-7-B30 (0-2)	TCLP	Solid	1311	
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	1311	
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	1311	
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	1311	
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	1311	
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	1311	
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	1311	
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	1311	
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	1311	
LB 500-303601/1-B	Method Blank	TCLP	Solid	1311	
LB 500-303601/1-C	Method Blank	TCLP	Solid	1311	
LB 500-303601/1-D	Method Blank	TCLP	Solid	1311	

### Leach Batch: 303602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	1311	
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	1311	
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	1311	
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	1311	
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	1311	
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	1311	
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	1311	
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	1311	
LB2 500-303602/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-303602/1-C	Method Blank	TCLP	Solid	1311	
LB2 500-303602/1-D	Method Blank	TCLP	Solid	1311	

### Leach Batch: 303605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	SPLP East	Solid	1312	
500-100826-1 DU	2618-7-B08 (0-2)	SPLP East	Solid	1312	
500-100826-1 MS	2618-7-B08 (0-2)	SPLP East	Solid	1312	
500-100826-2	2618-7-B10 (0-2)	SPLP East	Solid	1312	
500-100826-2 DU	2618-7-B10 (0-2)	SPLP East	Solid	1312	
500-100826-2 MS	2618-7-B10 (0-2)	SPLP East	Solid	1312	
500-100826-3	2618-7-B11 (0-2)	SPLP East	Solid	1312	
500-100826-4	2618-7-B12 (0-2)	SPLP East	Solid	1312	
500-100826-5	2618-7-B13 (0-2)	SPLP East	Solid	1312	
500-100826-6	2618-7-B14 (0-2)	SPLP East	Solid	1312	
500-100826-7	2618-7-B15 (0-2)	SPLP East	Solid	1312	
500-100826-8	2618-7-B16 (0-2)	SPLP East	Solid	1312	
500-100826-9	2618-7-B17 (0-2)	SPLP East	Solid	1312	
500-100826-10	2618-7-B18 (0-2)	SPLP East	Solid	1312	
500-100826-11	2618-7-B19 (0-2)	SPLP East	Solid	1312	
500-100826-12	2618-7-B20 (0-2)	SPLP East	Solid	1312	
500-100826-13	2618-7-B21 (0-2)	SPLP East	Solid	1312	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Leach Batch: 303605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-14	2618-7-B22 (0-2)	SPLP East	Solid	1312	
500-100826-15	2618-7-B23 (0-2)	SPLP East	Solid	1312	
500-100826-16	2618-7-B24 (0-2)	SPLP East	Solid	1312	
500-100826-17	2618-7-B25 (0-2)	SPLP East	Solid	1312	
500-100826-18	2618-7-B26 (0-2)	SPLP East	Solid	1312	
500-100826-19	2618-7-B27 (0-2)	SPLP East	Solid	1312	
500-100826-20	2618-7-B28 (0-2)	SPLP East	Solid	1312	
LB 500-303605/1-B	Method Blank	SPLP East	Solid	1312	
LB 500-303605/1-C	Method Blank	SPLP East	Solid	1312	

### Leach Batch: 303606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	SPLP East	Solid	1312	
500-100826-21 DU	2618-7-B29 (0-2)	SPLP East	Solid	1312	
500-100826-21 MS	2618-7-B29 (0-2)	SPLP East	Solid	1312	
500-100826-22	2618-7-B30 (0-2)	SPLP East	Solid	1312	
500-100826-22 DU	2618-7-B30 (0-2)	SPLP East	Solid	1312	
500-100826-22 MS	2618-7-B30 (0-2)	SPLP East	Solid	1312	
500-100826-23	2618-7-B31 (0-2)	SPLP East	Solid	1312	
500-100826-24	2618-7-B32 (0-2)	SPLP East	Solid	1312	
500-100826-25	2618-7-B33 (0-2)	SPLP East	Solid	1312	
500-100826-26	2618-7-B34 (0-2)	SPLP East	Solid	1312	
500-100826-27	2618-7-B35 (0-2)	SPLP East	Solid	1312	
500-100826-28	2618-7-B36 (0-2)	SPLP East	Solid	1312	
500-100826-29	2618-7-B37 (0-2)	SPLP East	Solid	1312	
500-100826-30	2618-7-B38 (0-2)	SPLP East	Solid	1312	
500-100826-31	2618-7-B39 (0-2)	SPLP East	Solid	1312	
500-100826-32	2618-7-B40 (0-2)	SPLP East	Solid	1312	
500-100826-33	2618-7-B41 (0-2)	SPLP East	Solid	1312	
500-100826-34	2618-7-B42 (0-2)	SPLP East	Solid	1312	
500-100826-35	2618-7-B43 (0-2)	SPLP East	Solid	1312	
500-100826-36	2618-7-B44 (0-2)	SPLP East	Solid	1312	
500-100826-37	2618-7-B35 DUP (0-2)	SPLP East	Solid	1312	
500-100826-38	2618-7-B20 DUP (0-2)	SPLP East	Solid	1312	
LB 500-303606/1-B	Method Blank	SPLP East	Solid	1312	
LB 500-303606/1-C	Method Blank	SPLP East	Solid	1312	

### Analysis Batch: 303663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-1 DU	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	6010B	303340
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	6010B	303340
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	6010B	303340
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	6010B	303340
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	6010B	303340
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	6010B	303340
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	6010B	303340
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	6010B	303340
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	6010B	303340

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 303663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	6010B	303340
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	6010B	303340
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	6010B	303340
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	6010B	303340
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	6010B	303340
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	6010B	303340
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	6010B	303340
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	6010B	303340
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	6010B	303340
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	6010B	303340
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	6010B	303340
LCS 500-303340/2-A	Lab Control Sample	Total/NA	Solid	6010B	303340
MB 500-303340/1-A	Method Blank	Total/NA	Solid	6010B	303340

### Analysis Batch: 303669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	6010B	303441
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	6010B	303441
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	6010B	303441
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	6010B	303441
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	6010B	303441
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	6010B	303441
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	6010B	303441
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	6010B	303441
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	6010B	303441
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	6010B	303441
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	6010B	303441
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	6010B	303441
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	6010B	303441
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	6010B	303441
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	6010B	303441
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	6010B	303441
LCS 500-303441/2-A	Lab Control Sample	Total/NA	Solid	6010B	303441
MB 500-303441/1-A	Method Blank	Total/NA	Solid	6010B	303441

### Prep Batch: 303717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	TCLP	Solid	3010A	303591
500-100826-1 DU	2618-7-B08 (0-2)	TCLP	Solid	3010A	303591
500-100826-1 MS	2618-7-B08 (0-2)	TCLP	Solid	3010A	303591
500-100826-2	2618-7-B10 (0-2)	TCLP	Solid	3010A	303591
500-100826-3	2618-7-B11 (0-2)	TCLP	Solid	3010A	303591
500-100826-4	2618-7-B12 (0-2)	TCLP	Solid	3010A	303591
500-100826-5	2618-7-B13 (0-2)	TCLP	Solid	3010A	303591
500-100826-6	2618-7-B14 (0-2)	TCLP	Solid	3010A	303591
500-100826-7	2618-7-B15 (0-2)	TCLP	Solid	3010A	303591
500-100826-8	2618-7-B16 (0-2)	TCLP	Solid	3010A	303591
500-100826-9	2618-7-B17 (0-2)	TCLP	Solid	3010A	303591
500-100826-10	2618-7-B18 (0-2)	TCLP	Solid	3010A	303600
500-100826-11	2618-7-B19 (0-2)	TCLP	Solid	3010A	303591
500-100826-12	2618-7-B20 (0-2)	TCLP	Solid	3010A	303591

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Prep Batch: 303717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-13	2618-7-B21 (0-2)	TCLP	Solid	3010A	303591
500-100826-14	2618-7-B22 (0-2)	TCLP	Solid	3010A	303591
500-100826-15	2618-7-B23 (0-2)	TCLP	Solid	3010A	303591
500-100826-16	2618-7-B24 (0-2)	TCLP	Solid	3010A	303591
500-100826-17	2618-7-B25 (0-2)	TCLP	Solid	3010A	303591
500-100826-18	2618-7-B26 (0-2)	TCLP	Solid	3010A	303591
500-100826-19	2618-7-B27 (0-2)	TCLP	Solid	3010A	303591
500-100826-20	2618-7-B28 (0-2)	TCLP	Solid	3010A	303591
LB 500-303591/1-B	Method Blank	TCLP	Solid	3010A	303591
LB2 500-303600/1-B	Method Blank	TCLP	Solid	3010A	303600
LCS 500-303717/3-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 303723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	7471B	303542
500-100826-1 DU	2618-7-B08 (0-2)	Total/NA	Solid	7471B	303542
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	7471B	303542
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	7471B	303542
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	7471B	303542
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	7471B	303542
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	7471B	303542
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	7471B	303542
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	7471B	303542
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	7471B	303542
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	7471B	303542
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	7471B	303542
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	7471B	303542
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	7471B	303542
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	7471B	303542
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	7471B	303542
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	7471B	303542
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	7471B	303542
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	7471B	303542
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	7471B	303542
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	7471B	303542
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	7471B	303542
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	7471B	303542
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	7471B	303548
500-100826-21 DU	2618-7-B29 (0-2)	Total/NA	Solid	7471B	303548
500-100826-21 MS	2618-7-B29 (0-2)	Total/NA	Solid	7471B	303548
500-100826-21 MSD	2618-7-B29 (0-2)	Total/NA	Solid	7471B	303548
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	7471B	303548
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	7471B	303548
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	7471B	303548
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	7471B	303548
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	7471B	303548
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	7471B	303548
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	7471B	303548
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	7471B	303548
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	7471B	303548
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	7471B	303548

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 303723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	7471B	303548
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	7471B	303548
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	7471B	303548
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	7471B	303548
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	7471B	303548
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	7471B	303548
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	7471B	303548
LCS 500-303542/13-A	Lab Control Sample	Total/NA	Solid	7471B	303542
LCS 500-303548/13-A	Lab Control Sample	Total/NA	Solid	7471B	303548
MB 500-303542/12-A	Method Blank	Total/NA	Solid	7471B	303542
MB 500-303548/12-A	Method Blank	Total/NA	Solid	7471B	303548

### Prep Batch: 303731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	3010A	303601
500-100826-21 DU	2618-7-B29 (0-2)	TCLP	Solid	3010A	303601
500-100826-21 MS	2618-7-B29 (0-2)	TCLP	Solid	3010A	303601
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	3010A	303601
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	3010A	303601
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	3010A	303601
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	3010A	303601
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	3010A	303601
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	3010A	303602
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	3010A	303602
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	3010A	303602
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	3010A	303602
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	3010A	303601
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	3010A	303602
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	3010A	303602
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	3010A	303601
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	3010A	303601
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	3010A	303602
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	3010A	303602
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	3010A	303601
LB 500-303601/1-B	Method Blank	TCLP	Solid	3010A	303601
LB2 500-303602/1-B	Method Blank	TCLP	Solid	3010A	303602
LCS 500-303731/3-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 303762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	TCLP	Solid	7470A	303591
500-100826-2	2618-7-B10 (0-2)	TCLP	Solid	7470A	303591
500-100826-2 DU	2618-7-B10 (0-2)	TCLP	Solid	7470A	303591
500-100826-2 MS	2618-7-B10 (0-2)	TCLP	Solid	7470A	303591
500-100826-3	2618-7-B11 (0-2)	TCLP	Solid	7470A	303591
500-100826-4	2618-7-B12 (0-2)	TCLP	Solid	7470A	303591
500-100826-5	2618-7-B13 (0-2)	TCLP	Solid	7470A	303591
500-100826-6	2618-7-B14 (0-2)	TCLP	Solid	7470A	303591
500-100826-7	2618-7-B15 (0-2)	TCLP	Solid	7470A	303591
500-100826-8	2618-7-B16 (0-2)	TCLP	Solid	7470A	303591
500-100826-9	2618-7-B17 (0-2)	TCLP	Solid	7470A	303591

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Prep Batch: 303762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-10	2618-7-B18 (0-2)	TCLP	Solid	7470A	303600
500-100826-11	2618-7-B19 (0-2)	TCLP	Solid	7470A	303591
500-100826-12	2618-7-B20 (0-2)	TCLP	Solid	7470A	303591
500-100826-13	2618-7-B21 (0-2)	TCLP	Solid	7470A	303591
500-100826-14	2618-7-B22 (0-2)	TCLP	Solid	7470A	303591
500-100826-15	2618-7-B23 (0-2)	TCLP	Solid	7470A	303591
500-100826-16	2618-7-B24 (0-2)	TCLP	Solid	7470A	303591
500-100826-17	2618-7-B25 (0-2)	TCLP	Solid	7470A	303591
500-100826-18	2618-7-B26 (0-2)	TCLP	Solid	7470A	303591
500-100826-19	2618-7-B27 (0-2)	TCLP	Solid	7470A	303591
500-100826-20	2618-7-B28 (0-2)	TCLP	Solid	7470A	303591
LB 500-303591/1-C	Method Blank	TCLP	Solid	7470A	303591
LB2 500-303600/1-C	Method Blank	TCLP	Solid	7470A	303600
LCS 500-303762/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-303762/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 303764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	7470A	303601
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	7470A	303601
500-100826-22 DU	2618-7-B30 (0-2)	TCLP	Solid	7470A	303601
500-100826-22 MS	2618-7-B30 (0-2)	TCLP	Solid	7470A	303601
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	7470A	303601
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	7470A	303601
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	7470A	303601
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	7470A	303601
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	7470A	303602
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	7470A	303602
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	7470A	303602
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	7470A	303602
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	7470A	303601
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	7470A	303602
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	7470A	303602
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	7470A	303601
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	7470A	303601
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	7470A	303602
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	7470A	303602
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	7470A	303601
LB 500-303601/1-C	Method Blank	TCLP	Solid	7470A	303601
LB2 500-303602/1-C	Method Blank	TCLP	Solid	7470A	303602
LCS 500-303764/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-303764/12-A	Method Blank	Total/NA	Solid	7470A	

### Analysis Batch: 303770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	6010B	303441
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	6010B	303441
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	6010B	303441
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	6010B	303441
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	6010B	303441
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	6010B	303441

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 303770 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	6010B	303441
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	6010B	303441
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	6010B	303441

### Prep Batch: 303778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	3050B	
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	3050B	
LCS 500-303778/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-303778/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 303788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	SPLP East	Solid	3010A	303605
500-100826-1 DU	2618-7-B08 (0-2)	SPLP East	Solid	3010A	303605
500-100826-1 MS	2618-7-B08 (0-2)	SPLP East	Solid	3010A	303605
500-100826-2	2618-7-B10 (0-2)	SPLP East	Solid	3010A	303605
500-100826-3	2618-7-B11 (0-2)	SPLP East	Solid	3010A	303605
500-100826-4	2618-7-B12 (0-2)	SPLP East	Solid	3010A	303605
500-100826-5	2618-7-B13 (0-2)	SPLP East	Solid	3010A	303605
500-100826-6	2618-7-B14 (0-2)	SPLP East	Solid	3010A	303605
500-100826-7	2618-7-B15 (0-2)	SPLP East	Solid	3010A	303605
500-100826-8	2618-7-B16 (0-2)	SPLP East	Solid	3010A	303605
500-100826-9	2618-7-B17 (0-2)	SPLP East	Solid	3010A	303605
500-100826-10	2618-7-B18 (0-2)	SPLP East	Solid	3010A	303605
500-100826-11	2618-7-B19 (0-2)	SPLP East	Solid	3010A	303605
500-100826-12	2618-7-B20 (0-2)	SPLP East	Solid	3010A	303605
500-100826-13	2618-7-B21 (0-2)	SPLP East	Solid	3010A	303605
500-100826-14	2618-7-B22 (0-2)	SPLP East	Solid	3010A	303605
500-100826-15	2618-7-B23 (0-2)	SPLP East	Solid	3010A	303605
500-100826-16	2618-7-B24 (0-2)	SPLP East	Solid	3010A	303605
500-100826-17	2618-7-B25 (0-2)	SPLP East	Solid	3010A	303605
500-100826-18	2618-7-B26 (0-2)	SPLP East	Solid	3010A	303605
500-100826-19	2618-7-B27 (0-2)	SPLP East	Solid	3010A	303605
500-100826-20	2618-7-B28 (0-2)	SPLP East	Solid	3010A	303605
LB 500-303605/1-B	Method Blank	SPLP East	Solid	3010A	303605
LCS 500-303788/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 303789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	SPLP East	Solid	3010A	303606
500-100826-21 DU	2618-7-B29 (0-2)	SPLP East	Solid	3010A	303606
500-100826-21 MS	2618-7-B29 (0-2)	SPLP East	Solid	3010A	303606
500-100826-22	2618-7-B30 (0-2)	SPLP East	Solid	3010A	303606
500-100826-23	2618-7-B31 (0-2)	SPLP East	Solid	3010A	303606
500-100826-24	2618-7-B32 (0-2)	SPLP East	Solid	3010A	303606
500-100826-25	2618-7-B33 (0-2)	SPLP East	Solid	3010A	303606
500-100826-26	2618-7-B34 (0-2)	SPLP East	Solid	3010A	303606
500-100826-27	2618-7-B35 (0-2)	SPLP East	Solid	3010A	303606
500-100826-28	2618-7-B36 (0-2)	SPLP East	Solid	3010A	303606
500-100826-29	2618-7-B37 (0-2)	SPLP East	Solid	3010A	303606

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Prep Batch: 303789 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-30	2618-7-B38 (0-2)	SPLP East	Solid	3010A	303606
500-100826-31	2618-7-B39 (0-2)	SPLP East	Solid	3010A	303606
500-100826-32	2618-7-B40 (0-2)	SPLP East	Solid	3010A	303606
500-100826-33	2618-7-B41 (0-2)	SPLP East	Solid	3010A	303606
500-100826-34	2618-7-B42 (0-2)	SPLP East	Solid	3010A	303606
500-100826-35	2618-7-B43 (0-2)	SPLP East	Solid	3010A	303606
500-100826-36	2618-7-B44 (0-2)	SPLP East	Solid	3010A	303606
500-100826-37	2618-7-B35 DUP (0-2)	SPLP East	Solid	3010A	303606
500-100826-38	2618-7-B20 DUP (0-2)	SPLP East	Solid	3010A	303606
LB 500-303606/1-B	Method Blank	SPLP East	Solid	3010A	303606
LCS 500-303789/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 303845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	TCLP	Solid	6020A	303717
500-100826-1 DU	2618-7-B08 (0-2)	TCLP	Solid	6020A	303717
500-100826-1 MS	2618-7-B08 (0-2)	TCLP	Solid	6020A	303717
500-100826-2	2618-7-B10 (0-2)	TCLP	Solid	6020A	303717
500-100826-3	2618-7-B11 (0-2)	TCLP	Solid	6020A	303717
500-100826-4	2618-7-B12 (0-2)	TCLP	Solid	6020A	303717
500-100826-5	2618-7-B13 (0-2)	TCLP	Solid	6020A	303717
500-100826-6	2618-7-B14 (0-2)	TCLP	Solid	6020A	303717
500-100826-7	2618-7-B15 (0-2)	TCLP	Solid	6020A	303717
500-100826-8	2618-7-B16 (0-2)	TCLP	Solid	6020A	303717
500-100826-9	2618-7-B17 (0-2)	TCLP	Solid	6020A	303717
500-100826-10	2618-7-B18 (0-2)	TCLP	Solid	6020A	303717
500-100826-11	2618-7-B19 (0-2)	TCLP	Solid	6020A	303717
500-100826-12	2618-7-B20 (0-2)	TCLP	Solid	6020A	303717
500-100826-13	2618-7-B21 (0-2)	TCLP	Solid	6020A	303717
500-100826-14	2618-7-B22 (0-2)	TCLP	Solid	6020A	303717
500-100826-15	2618-7-B23 (0-2)	TCLP	Solid	6020A	303717
500-100826-16	2618-7-B24 (0-2)	TCLP	Solid	6020A	303717
500-100826-17	2618-7-B25 (0-2)	TCLP	Solid	6020A	303717
500-100826-18	2618-7-B26 (0-2)	TCLP	Solid	6020A	303717
500-100826-19	2618-7-B27 (0-2)	TCLP	Solid	6020A	303717
500-100826-20	2618-7-B28 (0-2)	TCLP	Solid	6020A	303717
LB 500-303591/1-B	Method Blank	TCLP	Solid	6020A	303717
LB2 500-303600/1-B	Method Blank	TCLP	Solid	6020A	303717
LCS 500-303717/3-A	Lab Control Sample	Total/NA	Solid	6020A	303717

### Analysis Batch: 303870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	TCLP	Solid	6010B	303717
500-100826-1 DU	2618-7-B08 (0-2)	TCLP	Solid	6010B	303717
500-100826-1 MS	2618-7-B08 (0-2)	TCLP	Solid	6010B	303717
500-100826-2	2618-7-B10 (0-2)	TCLP	Solid	6010B	303717
500-100826-3	2618-7-B11 (0-2)	TCLP	Solid	6010B	303717
500-100826-4	2618-7-B12 (0-2)	TCLP	Solid	6010B	303717
500-100826-5	2618-7-B13 (0-2)	TCLP	Solid	6010B	303717
500-100826-6	2618-7-B14 (0-2)	TCLP	Solid	6010B	303717
500-100826-7	2618-7-B15 (0-2)	TCLP	Solid	6010B	303717

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 303870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-8	2618-7-B16 (0-2)	TCLP	Solid	6010B	303717
500-100826-9	2618-7-B17 (0-2)	TCLP	Solid	6010B	303717
500-100826-10	2618-7-B18 (0-2)	TCLP	Solid	6010B	303717
500-100826-11	2618-7-B19 (0-2)	TCLP	Solid	6010B	303717
500-100826-12	2618-7-B20 (0-2)	TCLP	Solid	6010B	303717
500-100826-13	2618-7-B21 (0-2)	TCLP	Solid	6010B	303717
500-100826-14	2618-7-B22 (0-2)	TCLP	Solid	6010B	303717
500-100826-15	2618-7-B23 (0-2)	TCLP	Solid	6010B	303717
500-100826-16	2618-7-B24 (0-2)	TCLP	Solid	6010B	303717
500-100826-17	2618-7-B25 (0-2)	TCLP	Solid	6010B	303717
500-100826-18	2618-7-B26 (0-2)	TCLP	Solid	6010B	303717
500-100826-19	2618-7-B27 (0-2)	TCLP	Solid	6010B	303717
500-100826-20	2618-7-B28 (0-2)	TCLP	Solid	6010B	303717
LB 500-303591/1-B	Method Blank	TCLP	Solid	6010B	303717
LB2 500-303600/1-B	Method Blank	TCLP	Solid	6010B	303717
LCS 500-303717/3-A	Lab Control Sample	Total/NA	Solid	6010B	303717

### Analysis Batch: 303932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	TCLP	Solid	7470A	303762
500-100826-2	2618-7-B10 (0-2)	TCLP	Solid	7470A	303762
500-100826-2 DU	2618-7-B10 (0-2)	TCLP	Solid	7470A	303762
500-100826-2 MS	2618-7-B10 (0-2)	TCLP	Solid	7470A	303762
500-100826-3	2618-7-B11 (0-2)	TCLP	Solid	7470A	303762
500-100826-4	2618-7-B12 (0-2)	TCLP	Solid	7470A	303762
500-100826-5	2618-7-B13 (0-2)	TCLP	Solid	7470A	303762
500-100826-6	2618-7-B14 (0-2)	TCLP	Solid	7470A	303762
500-100826-7	2618-7-B15 (0-2)	TCLP	Solid	7470A	303762
500-100826-8	2618-7-B16 (0-2)	TCLP	Solid	7470A	303762
500-100826-9	2618-7-B17 (0-2)	TCLP	Solid	7470A	303762
500-100826-10	2618-7-B18 (0-2)	TCLP	Solid	7470A	303762
500-100826-11	2618-7-B19 (0-2)	TCLP	Solid	7470A	303762
500-100826-12	2618-7-B20 (0-2)	TCLP	Solid	7470A	303762
500-100826-13	2618-7-B21 (0-2)	TCLP	Solid	7470A	303762
500-100826-14	2618-7-B22 (0-2)	TCLP	Solid	7470A	303762
500-100826-15	2618-7-B23 (0-2)	TCLP	Solid	7470A	303762
500-100826-16	2618-7-B24 (0-2)	TCLP	Solid	7470A	303762
500-100826-17	2618-7-B25 (0-2)	TCLP	Solid	7470A	303762
500-100826-18	2618-7-B26 (0-2)	TCLP	Solid	7470A	303762
500-100826-19	2618-7-B27 (0-2)	TCLP	Solid	7470A	303762
500-100826-20	2618-7-B28 (0-2)	TCLP	Solid	7470A	303762
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	7470A	303764
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	7470A	303764
500-100826-22 DU	2618-7-B30 (0-2)	TCLP	Solid	7470A	303764
500-100826-22 MS	2618-7-B30 (0-2)	TCLP	Solid	7470A	303764
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	7470A	303764
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	7470A	303764
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	7470A	303764
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	7470A	303764
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	7470A	303764
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	7470A	303764

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 303932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	7470A	303764
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	7470A	303764
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	7470A	303764
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	7470A	303764
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	7470A	303764
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	7470A	303764
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	7470A	303764
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	7470A	303764
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	7470A	303764
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	7470A	303764
LB 500-303591/1-C	Method Blank	TCLP	Solid	7470A	303762
LB 500-303601/1-C	Method Blank	TCLP	Solid	7470A	303764
LB2 500-303600/1-C	Method Blank	TCLP	Solid	7470A	303762
LB2 500-303602/1-C	Method Blank	TCLP	Solid	7470A	303764
LCS 500-303762/13-A	Lab Control Sample	Total/NA	Solid	7470A	303762
LCS 500-303764/13-A	Lab Control Sample	Total/NA	Solid	7470A	303764
MB 500-303762/12-A	Method Blank	Total/NA	Solid	7470A	303762
MB 500-303764/12-A	Method Blank	Total/NA	Solid	7470A	303764

### Analysis Batch: 303937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-10	2618-7-B18 (0-2)	TCLP	Solid	6010B	303717

### Prep Batch: 303981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	SPLP East	Solid	7470A	303605
500-100826-2	2618-7-B10 (0-2)	SPLP East	Solid	7470A	303605
500-100826-2 DU	2618-7-B10 (0-2)	SPLP East	Solid	7470A	303605
500-100826-2 MS	2618-7-B10 (0-2)	SPLP East	Solid	7470A	303605
500-100826-3	2618-7-B11 (0-2)	SPLP East	Solid	7470A	303605
500-100826-4	2618-7-B12 (0-2)	SPLP East	Solid	7470A	303605
500-100826-5	2618-7-B13 (0-2)	SPLP East	Solid	7470A	303605
500-100826-6	2618-7-B14 (0-2)	SPLP East	Solid	7470A	303605
500-100826-7	2618-7-B15 (0-2)	SPLP East	Solid	7470A	303605
500-100826-8	2618-7-B16 (0-2)	SPLP East	Solid	7470A	303605
500-100826-9	2618-7-B17 (0-2)	SPLP East	Solid	7470A	303605
500-100826-10	2618-7-B18 (0-2)	SPLP East	Solid	7470A	303605
500-100826-11	2618-7-B19 (0-2)	SPLP East	Solid	7470A	303605
500-100826-12	2618-7-B20 (0-2)	SPLP East	Solid	7470A	303605
500-100826-13	2618-7-B21 (0-2)	SPLP East	Solid	7470A	303605
500-100826-14	2618-7-B22 (0-2)	SPLP East	Solid	7470A	303605
500-100826-15	2618-7-B23 (0-2)	SPLP East	Solid	7470A	303605
500-100826-16	2618-7-B24 (0-2)	SPLP East	Solid	7470A	303605
500-100826-17	2618-7-B25 (0-2)	SPLP East	Solid	7470A	303605
500-100826-18	2618-7-B26 (0-2)	SPLP East	Solid	7470A	303605
500-100826-19	2618-7-B27 (0-2)	SPLP East	Solid	7470A	303605
500-100826-20	2618-7-B28 (0-2)	SPLP East	Solid	7470A	303605
LB 500-303605/1-C	Method Blank	SPLP East	Solid	7470A	303605
LCS 500-303981/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-303981/12-A	Method Blank	Total/NA	Solid	7470A	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Prep Batch: 303983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	SPLP East	Solid	7470A	303606
500-100826-22	2618-7-B30 (0-2)	SPLP East	Solid	7470A	303606
500-100826-22 DU	2618-7-B30 (0-2)	SPLP East	Solid	7470A	303606
500-100826-22 MS	2618-7-B30 (0-2)	SPLP East	Solid	7470A	303606
500-100826-23	2618-7-B31 (0-2)	SPLP East	Solid	7470A	303606
500-100826-24	2618-7-B32 (0-2)	SPLP East	Solid	7470A	303606
500-100826-25	2618-7-B33 (0-2)	SPLP East	Solid	7470A	303606
500-100826-26	2618-7-B34 (0-2)	SPLP East	Solid	7470A	303606
500-100826-27	2618-7-B35 (0-2)	SPLP East	Solid	7470A	303606
500-100826-28	2618-7-B36 (0-2)	SPLP East	Solid	7470A	303606
500-100826-29	2618-7-B37 (0-2)	SPLP East	Solid	7470A	303606
500-100826-30	2618-7-B38 (0-2)	SPLP East	Solid	7470A	303606
500-100826-31	2618-7-B39 (0-2)	SPLP East	Solid	7470A	303606
500-100826-32	2618-7-B40 (0-2)	SPLP East	Solid	7470A	303606
500-100826-33	2618-7-B41 (0-2)	SPLP East	Solid	7470A	303606
500-100826-34	2618-7-B42 (0-2)	SPLP East	Solid	7470A	303606
500-100826-35	2618-7-B43 (0-2)	SPLP East	Solid	7470A	303606
500-100826-36	2618-7-B44 (0-2)	SPLP East	Solid	7470A	303606
500-100826-37	2618-7-B35 DUP (0-2)	SPLP East	Solid	7470A	303606
500-100826-38	2618-7-B20 DUP (0-2)	SPLP East	Solid	7470A	303606
LB 500-303606/1-C	Method Blank	SPLP East	Solid	7470A	303606
LCS 500-303983/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-303983/12-A	Method Blank	Total/NA	Solid	7470A	

### Analysis Batch: 304072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	SPLP East	Solid	6010B	303788
500-100826-1 DU	2618-7-B08 (0-2)	SPLP East	Solid	6010B	303788
500-100826-1 MS	2618-7-B08 (0-2)	SPLP East	Solid	6010B	303788
500-100826-2	2618-7-B10 (0-2)	SPLP East	Solid	6010B	303788
500-100826-3	2618-7-B11 (0-2)	SPLP East	Solid	6010B	303788
500-100826-4	2618-7-B12 (0-2)	SPLP East	Solid	6010B	303788
500-100826-5	2618-7-B13 (0-2)	SPLP East	Solid	6010B	303788
500-100826-6	2618-7-B14 (0-2)	SPLP East	Solid	6010B	303788
500-100826-7	2618-7-B15 (0-2)	SPLP East	Solid	6010B	303788
500-100826-8	2618-7-B16 (0-2)	SPLP East	Solid	6010B	303788
500-100826-9	2618-7-B17 (0-2)	SPLP East	Solid	6010B	303788
500-100826-10	2618-7-B18 (0-2)	SPLP East	Solid	6010B	303788
500-100826-11	2618-7-B19 (0-2)	SPLP East	Solid	6010B	303788
500-100826-12	2618-7-B20 (0-2)	SPLP East	Solid	6010B	303788
500-100826-13	2618-7-B21 (0-2)	SPLP East	Solid	6010B	303788
500-100826-14	2618-7-B22 (0-2)	SPLP East	Solid	6010B	303788
500-100826-15	2618-7-B23 (0-2)	SPLP East	Solid	6010B	303788
500-100826-16	2618-7-B24 (0-2)	SPLP East	Solid	6010B	303788
500-100826-17	2618-7-B25 (0-2)	SPLP East	Solid	6010B	303788
500-100826-18	2618-7-B26 (0-2)	SPLP East	Solid	6010B	303788
500-100826-19	2618-7-B27 (0-2)	SPLP East	Solid	6010B	303788
500-100826-20	2618-7-B28 (0-2)	SPLP East	Solid	6010B	303788
500-100826-21	2618-7-B29 (0-2)	SPLP East	Solid	6010B	303789
500-100826-21 DU	2618-7-B29 (0-2)	SPLP East	Solid	6010B	303789
500-100826-21 MS	2618-7-B29 (0-2)	SPLP East	Solid	6010B	303789

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 304072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-22	2618-7-B30 (0-2)	SPLP East	Solid	6010B	303789
500-100826-23	2618-7-B31 (0-2)	SPLP East	Solid	6010B	303789
500-100826-24	2618-7-B32 (0-2)	SPLP East	Solid	6010B	303789
500-100826-25	2618-7-B33 (0-2)	SPLP East	Solid	6010B	303789
500-100826-26	2618-7-B34 (0-2)	SPLP East	Solid	6010B	303789
500-100826-27	2618-7-B35 (0-2)	SPLP East	Solid	6010B	303789
500-100826-28	2618-7-B36 (0-2)	SPLP East	Solid	6010B	303789
500-100826-29	2618-7-B37 (0-2)	SPLP East	Solid	6010B	303789
500-100826-30	2618-7-B38 (0-2)	SPLP East	Solid	6010B	303789
500-100826-31	2618-7-B39 (0-2)	SPLP East	Solid	6010B	303789
500-100826-32	2618-7-B40 (0-2)	SPLP East	Solid	6010B	303789
500-100826-33	2618-7-B41 (0-2)	SPLP East	Solid	6010B	303789
500-100826-34	2618-7-B42 (0-2)	SPLP East	Solid	6010B	303789
500-100826-35	2618-7-B43 (0-2)	SPLP East	Solid	6010B	303789
500-100826-36	2618-7-B44 (0-2)	SPLP East	Solid	6010B	303789
500-100826-37	2618-7-B35 DUP (0-2)	SPLP East	Solid	6010B	303789
500-100826-38	2618-7-B20 DUP (0-2)	SPLP East	Solid	6010B	303789
LB 500-303605/1-B	Method Blank	SPLP East	Solid	6010B	303788
LB 500-303606/1-B	Method Blank	SPLP East	Solid	6010B	303789
LCS 500-303788/2-A	Lab Control Sample	Total/NA	Solid	6010B	303788
LCS 500-303789/2-A	Lab Control Sample	Total/NA	Solid	6010B	303789

### Analysis Batch: 304074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	6010B	303778
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	6010B	303778
LCS 500-303778/2-A	Lab Control Sample	Total/NA	Solid	6010B	303778
MB 500-303778/1-A	Method Blank	Total/NA	Solid	6010B	303778

### Analysis Batch: 304083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	6010B	303731
500-100826-21 DU	2618-7-B29 (0-2)	TCLP	Solid	6010B	303731
500-100826-21 MS	2618-7-B29 (0-2)	TCLP	Solid	6010B	303731
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	6010B	303731
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	6010B	303731
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	6010B	303731
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	6010B	303731
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	6010B	303731
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	6010B	303731
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	6010B	303731
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	6010B	303731
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	6010B	303731
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	6010B	303731
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	6010B	303731
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	6010B	303731
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	6010B	303731
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	6010B	303731
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	6010B	303731
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	6010B	303731
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	6010B	303731

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 304083 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-303601/1-B	Method Blank	TCLP	Solid	6010B	303731
LB2 500-303602/1-B	Method Blank	TCLP	Solid	6010B	303731
LCS 500-303731/3-A	Lab Control Sample	Total/NA	Solid	6010B	303731

### Analysis Batch: 304163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	SPLP East	Solid	7470A	303981
500-100826-2	2618-7-B10 (0-2)	SPLP East	Solid	7470A	303981
500-100826-2 DU	2618-7-B10 (0-2)	SPLP East	Solid	7470A	303981
500-100826-2 MS	2618-7-B10 (0-2)	SPLP East	Solid	7470A	303981
500-100826-3	2618-7-B11 (0-2)	SPLP East	Solid	7470A	303981
500-100826-4	2618-7-B12 (0-2)	SPLP East	Solid	7470A	303981
500-100826-5	2618-7-B13 (0-2)	SPLP East	Solid	7470A	303981
500-100826-6	2618-7-B14 (0-2)	SPLP East	Solid	7470A	303981
500-100826-7	2618-7-B15 (0-2)	SPLP East	Solid	7470A	303981
500-100826-8	2618-7-B16 (0-2)	SPLP East	Solid	7470A	303981
500-100826-9	2618-7-B17 (0-2)	SPLP East	Solid	7470A	303981
500-100826-10	2618-7-B18 (0-2)	SPLP East	Solid	7470A	303981
500-100826-11	2618-7-B19 (0-2)	SPLP East	Solid	7470A	303981
500-100826-12	2618-7-B20 (0-2)	SPLP East	Solid	7470A	303981
500-100826-13	2618-7-B21 (0-2)	SPLP East	Solid	7470A	303981
500-100826-14	2618-7-B22 (0-2)	SPLP East	Solid	7470A	303981
500-100826-15	2618-7-B23 (0-2)	SPLP East	Solid	7470A	303981
500-100826-16	2618-7-B24 (0-2)	SPLP East	Solid	7470A	303981
500-100826-17	2618-7-B25 (0-2)	SPLP East	Solid	7470A	303981
500-100826-18	2618-7-B26 (0-2)	SPLP East	Solid	7470A	303981
500-100826-19	2618-7-B27 (0-2)	SPLP East	Solid	7470A	303981
500-100826-20	2618-7-B28 (0-2)	SPLP East	Solid	7470A	303981
500-100826-21	2618-7-B29 (0-2)	SPLP East	Solid	7470A	303983
500-100826-22	2618-7-B30 (0-2)	SPLP East	Solid	7470A	303983
500-100826-22 DU	2618-7-B30 (0-2)	SPLP East	Solid	7470A	303983
500-100826-22 MS	2618-7-B30 (0-2)	SPLP East	Solid	7470A	303983
500-100826-23	2618-7-B31 (0-2)	SPLP East	Solid	7470A	303983
500-100826-24	2618-7-B32 (0-2)	SPLP East	Solid	7470A	303983
500-100826-25	2618-7-B33 (0-2)	SPLP East	Solid	7470A	303983
500-100826-26	2618-7-B34 (0-2)	SPLP East	Solid	7470A	303983
500-100826-27	2618-7-B35 (0-2)	SPLP East	Solid	7470A	303983
500-100826-28	2618-7-B36 (0-2)	SPLP East	Solid	7470A	303983
500-100826-29	2618-7-B37 (0-2)	SPLP East	Solid	7470A	303983
500-100826-30	2618-7-B38 (0-2)	SPLP East	Solid	7470A	303983
500-100826-31	2618-7-B39 (0-2)	SPLP East	Solid	7470A	303983
500-100826-32	2618-7-B40 (0-2)	SPLP East	Solid	7470A	303983
500-100826-33	2618-7-B41 (0-2)	SPLP East	Solid	7470A	303983
500-100826-34	2618-7-B42 (0-2)	SPLP East	Solid	7470A	303983
500-100826-35	2618-7-B43 (0-2)	SPLP East	Solid	7470A	303983
500-100826-36	2618-7-B44 (0-2)	SPLP East	Solid	7470A	303983
500-100826-37	2618-7-B35 DUP (0-2)	SPLP East	Solid	7470A	303983
500-100826-38	2618-7-B20 DUP (0-2)	SPLP East	Solid	7470A	303983
LB 500-303605/1-C	Method Blank	SPLP East	Solid	7470A	303981
LB 500-303606/1-C	Method Blank	SPLP East	Solid	7470A	303983
LCS 500-303981/13-A	Lab Control Sample	Total/NA	Solid	7470A	303981

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 304163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303983/13-A	Lab Control Sample	Total/NA	Solid	7470A	303983
MB 500-303981/12-A	Method Blank	Total/NA	Solid	7470A	303981
MB 500-303983/12-A	Method Blank	Total/NA	Solid	7470A	303983

### Prep Batch: 304235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	3010A	303601
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	3010A	303601
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	3010A	303601
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	3010A	303601
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	3010A	303601
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	3010A	303601
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	3010A	303602
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	3010A	303602
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	3010A	303602
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	3010A	303602
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	3010A	303601
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	3010A	303602
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	3010A	303602
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	3010A	303601
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	3010A	303601
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	3010A	303602
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	3010A	303602
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	3010A	303601
LB 500-303601/1-D	Method Blank	TCLP	Solid	3010A	303601
LB2 500-303602/1-D	Method Blank	TCLP	Solid	3010A	303602
LCS 500-304235/4-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	6010B	303731
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	6010B	303731
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	6010B	303731
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	6010B	303731
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	6010B	303731
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	6010B	303731

### Analysis Batch: 304371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	6010B	304235
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	6010B	304235
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	6010B	304235
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	6010B	304235
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	6010B	304235
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	6010B	304235
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	6010B	304235

### Analysis Batch: 304372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	6010B	304235
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	6010B	304235

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 304372 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	6010B	304235
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	6010B	304235
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	6010B	304235
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	6010B	304235
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	6010B	304235
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	6010B	304235
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	6010B	304235
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	6010B	304235
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	6010B	304235
LB 500-303601/1-D	Method Blank	TCLP	Solid	6010B	304235
LB2 500-303602/1-D	Method Blank	TCLP	Solid	6010B	304235
LCS 500-304235/4-A	Lab Control Sample	Total/NA	Solid	6010B	304235

### Analysis Batch: 304382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	SPLP East	Solid	6020A	303788
500-100826-1 DU	2618-7-B08 (0-2)	SPLP East	Solid	6020A	303788
500-100826-1 MS	2618-7-B08 (0-2)	SPLP East	Solid	6020A	303788
500-100826-2	2618-7-B10 (0-2)	SPLP East	Solid	6020A	303788
500-100826-3	2618-7-B11 (0-2)	SPLP East	Solid	6020A	303788
500-100826-4	2618-7-B12 (0-2)	SPLP East	Solid	6020A	303788
500-100826-5	2618-7-B13 (0-2)	SPLP East	Solid	6020A	303788
500-100826-6	2618-7-B14 (0-2)	SPLP East	Solid	6020A	303788
500-100826-7	2618-7-B15 (0-2)	SPLP East	Solid	6020A	303788
500-100826-8	2618-7-B16 (0-2)	SPLP East	Solid	6020A	303788
500-100826-9	2618-7-B17 (0-2)	SPLP East	Solid	6020A	303788
500-100826-10	2618-7-B18 (0-2)	SPLP East	Solid	6020A	303788
500-100826-11	2618-7-B19 (0-2)	SPLP East	Solid	6020A	303788
500-100826-12	2618-7-B20 (0-2)	SPLP East	Solid	6020A	303788
500-100826-13	2618-7-B21 (0-2)	SPLP East	Solid	6020A	303788
500-100826-14	2618-7-B22 (0-2)	SPLP East	Solid	6020A	303788
500-100826-15	2618-7-B23 (0-2)	SPLP East	Solid	6020A	303788
500-100826-16	2618-7-B24 (0-2)	SPLP East	Solid	6020A	303788
500-100826-17	2618-7-B25 (0-2)	SPLP East	Solid	6020A	303788
500-100826-18	2618-7-B26 (0-2)	SPLP East	Solid	6020A	303788
500-100826-19	2618-7-B27 (0-2)	SPLP East	Solid	6020A	303788
500-100826-20	2618-7-B28 (0-2)	SPLP East	Solid	6020A	303788
500-100826-21	2618-7-B29 (0-2)	SPLP East	Solid	6020A	303789
500-100826-21	2618-7-B29 (0-2)	TCLP	Solid	6020A	303731
500-100826-21 DU	2618-7-B29 (0-2)	SPLP East	Solid	6020A	303789
500-100826-21 DU	2618-7-B29 (0-2)	TCLP	Solid	6020A	303731
500-100826-21 MS	2618-7-B29 (0-2)	SPLP East	Solid	6020A	303789
500-100826-21 MS	2618-7-B29 (0-2)	TCLP	Solid	6020A	303731
500-100826-22	2618-7-B30 (0-2)	SPLP East	Solid	6020A	303789
500-100826-22	2618-7-B30 (0-2)	TCLP	Solid	6020A	303731
500-100826-23	2618-7-B31 (0-2)	SPLP East	Solid	6020A	303789
500-100826-23	2618-7-B31 (0-2)	TCLP	Solid	6020A	303731
500-100826-24	2618-7-B32 (0-2)	SPLP East	Solid	6020A	303789
500-100826-24	2618-7-B32 (0-2)	TCLP	Solid	6020A	303731
500-100826-25	2618-7-B33 (0-2)	SPLP East	Solid	6020A	303789
500-100826-25	2618-7-B33 (0-2)	TCLP	Solid	6020A	303731

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Metals (Continued)

### Analysis Batch: 304382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-26	2618-7-B34 (0-2)	SPLP East	Solid	6020A	303789
500-100826-26	2618-7-B34 (0-2)	TCLP	Solid	6020A	303731
500-100826-27	2618-7-B35 (0-2)	SPLP East	Solid	6020A	303789
500-100826-27	2618-7-B35 (0-2)	TCLP	Solid	6020A	303731
500-100826-28	2618-7-B36 (0-2)	SPLP East	Solid	6020A	303789
500-100826-28	2618-7-B36 (0-2)	TCLP	Solid	6020A	303731
500-100826-29	2618-7-B37 (0-2)	SPLP East	Solid	6020A	303789
500-100826-29	2618-7-B37 (0-2)	TCLP	Solid	6020A	303731
500-100826-30	2618-7-B38 (0-2)	SPLP East	Solid	6020A	303789
500-100826-30	2618-7-B38 (0-2)	TCLP	Solid	6020A	303731
500-100826-31	2618-7-B39 (0-2)	SPLP East	Solid	6020A	303789
500-100826-31	2618-7-B39 (0-2)	TCLP	Solid	6020A	303731
500-100826-32	2618-7-B40 (0-2)	SPLP East	Solid	6020A	303789
500-100826-32	2618-7-B40 (0-2)	TCLP	Solid	6020A	303731
500-100826-33	2618-7-B41 (0-2)	SPLP East	Solid	6020A	303789
500-100826-33	2618-7-B41 (0-2)	TCLP	Solid	6020A	303731
500-100826-34	2618-7-B42 (0-2)	SPLP East	Solid	6020A	303789
500-100826-34	2618-7-B42 (0-2)	TCLP	Solid	6020A	303731
500-100826-35	2618-7-B43 (0-2)	SPLP East	Solid	6020A	303789
500-100826-35	2618-7-B43 (0-2)	TCLP	Solid	6020A	303731
500-100826-36	2618-7-B44 (0-2)	SPLP East	Solid	6020A	303789
500-100826-36	2618-7-B44 (0-2)	TCLP	Solid	6020A	303731
500-100826-37	2618-7-B35 DUP (0-2)	SPLP East	Solid	6020A	303789
500-100826-37	2618-7-B35 DUP (0-2)	TCLP	Solid	6020A	303731
500-100826-38	2618-7-B20 DUP (0-2)	SPLP East	Solid	6020A	303789
500-100826-38	2618-7-B20 DUP (0-2)	TCLP	Solid	6020A	303731
LB 500-303601/1-B	Method Blank	TCLP	Solid	6020A	303731
LB 500-303605/1-B	Method Blank	SPLP East	Solid	6020A	303788
LB 500-303606/1-B	Method Blank	SPLP East	Solid	6020A	303789
LB2 500-303602/1-B	Method Blank	TCLP	Solid	6020A	303731
LCS 500-303731/3-A	Lab Control Sample	Total/NA	Solid	6020A	303731
LCS 500-303788/2-A	Lab Control Sample	Total/NA	Solid	6020A	303788
LCS 500-303789/2-A	Lab Control Sample	Total/NA	Solid	6020A	303789

## General Chemistry

### Analysis Batch: 303165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	Moisture	
500-100826-1 DU	2618-7-B08 (0-2)	Total/NA	Solid	Moisture	
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	Moisture	
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	Moisture	
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	Moisture	
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	Moisture	
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	Moisture	
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	Moisture	
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	Moisture	
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	Moisture	
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	Moisture	
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	Moisture	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## General Chemistry (Continued)

### Analysis Batch: 303165 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	Moisture	
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	Moisture	
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	Moisture	
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	Moisture	
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	Moisture	
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	Moisture	
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	Moisture	
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	Moisture	
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	Moisture	

### Analysis Batch: 303172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	Moisture	
500-100826-21 DU	2618-7-B29 (0-2)	Total/NA	Solid	Moisture	
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	Moisture	
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	Moisture	
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	Moisture	
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	Moisture	
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	Moisture	
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	Moisture	
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	Moisture	
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	Moisture	
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	Moisture	
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	Moisture	
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	Moisture	
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	Moisture	
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	Moisture	
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	Moisture	
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	Moisture	
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	Moisture	
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	Moisture	

### Prep Batch: 303461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	9010B	
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	9010B	
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	9010B	
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	9010B	
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	9010B	
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	9010B	
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	9010B	
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	9010B	
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	9010B	
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	9010B	
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	9010B	
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	9010B	
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	9010B	
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	9010B	
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	9010B	
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	9010B	
LCS 500-303461/2-A	Lab Control Sample	Total/NA	Solid	9010B	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100826-1

## General Chemistry (Continued)

### Prep Batch: 303461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-303461/1-A	Method Blank	Total/NA	Solid	9010B	

### Prep Batch: 303586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	9010B	
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	9010B	
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	9010B	
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	9010B	
500-100826-18 MS	2618-7-B26 (0-2)	Total/NA	Solid	9010B	
500-100826-18 MSD	2618-7-B26 (0-2)	Total/NA	Solid	9010B	
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	9010B	
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	9010B	
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	9010B	
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	9010B	
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	9010B	
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	9010B	
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	9010B	
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	9010B	
LCS 500-303586/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-303586/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 303596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	9014	303461
500-100826-1 MS	2618-7-B08 (0-2)	Total/NA	Solid	9014	303461
500-100826-1 MSD	2618-7-B08 (0-2)	Total/NA	Solid	9014	303461
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	9014	303461
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	9014	303461
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	9014	303461
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	9014	303461
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	9014	303461
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	9014	303461
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	9014	303461
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	9014	303461
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	9014	303461
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	9014	303461
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	9014	303461
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	9014	303461
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	9014	303461
LCS 500-303461/2-A	Lab Control Sample	Total/NA	Solid	9014	303461
MB 500-303461/1-A	Method Blank	Total/NA	Solid	9014	303461

### Prep Batch: 303611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	9010B	
500-100826-27 MS	2618-7-B35 (0-2)	Total/NA	Solid	9010B	
500-100826-27 MSD	2618-7-B35 (0-2)	Total/NA	Solid	9010B	
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	9010B	
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	9010B	
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	9010B	
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	9010B	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## General Chemistry (Continued)

### Prep Batch: 303611 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	9010B	
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	9010B	
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	9010B	
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	9010B	
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	9010B	
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	9010B	
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	9010B	
LCS 500-303611/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-303611/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 303613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	9014	303586
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	9014	303586
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	9014	303586
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	9014	303586
500-100826-18 MS	2618-7-B26 (0-2)	Total/NA	Solid	9014	303586
500-100826-18 MSD	2618-7-B26 (0-2)	Total/NA	Solid	9014	303586
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	9014	303586
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	9014	303586
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	9014	303586
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	9014	303586
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	9014	303586
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	9014	303586
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	9014	303586
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	9014	303586
LCS 500-303586/2-A	Lab Control Sample	Total/NA	Solid	9014	303586
MB 500-303586/1-A	Method Blank	Total/NA	Solid	9014	303586

### Analysis Batch: 303634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	9014	303611
500-100826-27 MS	2618-7-B35 (0-2)	Total/NA	Solid	9014	303611
500-100826-27 MSD	2618-7-B35 (0-2)	Total/NA	Solid	9014	303611
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	9014	303611
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	9014	303611
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	9014	303611
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	9014	303611
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	9014	303611
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	9014	303611
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	9014	303611
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	9014	303611
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	9014	303611
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	9014	303611
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	9014	303611
LCS 500-303611/2-A	Lab Control Sample	Total/NA	Solid	9014	303611
MB 500-303611/1-A	Method Blank	Total/NA	Solid	9014	303611

### Analysis Batch: 303885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-1	2618-7-B08 (0-2)	Total/NA	Solid	9045D	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## General Chemistry (Continued)

### Analysis Batch: 303885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100826-2	2618-7-B10 (0-2)	Total/NA	Solid	9045D	
500-100826-3	2618-7-B11 (0-2)	Total/NA	Solid	9045D	
500-100826-4	2618-7-B12 (0-2)	Total/NA	Solid	9045D	
500-100826-5	2618-7-B13 (0-2)	Total/NA	Solid	9045D	
500-100826-5 DU	2618-7-B13 (0-2)	Total/NA	Solid	9045D	
500-100826-6	2618-7-B14 (0-2)	Total/NA	Solid	9045D	
500-100826-7	2618-7-B15 (0-2)	Total/NA	Solid	9045D	
500-100826-8	2618-7-B16 (0-2)	Total/NA	Solid	9045D	
500-100826-9	2618-7-B17 (0-2)	Total/NA	Solid	9045D	
500-100826-10	2618-7-B18 (0-2)	Total/NA	Solid	9045D	
500-100826-11	2618-7-B19 (0-2)	Total/NA	Solid	9045D	
500-100826-12	2618-7-B20 (0-2)	Total/NA	Solid	9045D	
500-100826-13	2618-7-B21 (0-2)	Total/NA	Solid	9045D	
500-100826-14	2618-7-B22 (0-2)	Total/NA	Solid	9045D	
500-100826-15	2618-7-B23 (0-2)	Total/NA	Solid	9045D	
500-100826-16	2618-7-B24 (0-2)	Total/NA	Solid	9045D	
500-100826-17	2618-7-B25 (0-2)	Total/NA	Solid	9045D	
500-100826-18	2618-7-B26 (0-2)	Total/NA	Solid	9045D	
500-100826-19	2618-7-B27 (0-2)	Total/NA	Solid	9045D	
500-100826-20	2618-7-B28 (0-2)	Total/NA	Solid	9045D	
500-100826-21	2618-7-B29 (0-2)	Total/NA	Solid	9045D	
500-100826-22	2618-7-B30 (0-2)	Total/NA	Solid	9045D	
500-100826-23	2618-7-B31 (0-2)	Total/NA	Solid	9045D	
500-100826-24	2618-7-B32 (0-2)	Total/NA	Solid	9045D	
500-100826-25	2618-7-B33 (0-2)	Total/NA	Solid	9045D	
500-100826-26	2618-7-B34 (0-2)	Total/NA	Solid	9045D	
500-100826-27	2618-7-B35 (0-2)	Total/NA	Solid	9045D	
500-100826-28	2618-7-B36 (0-2)	Total/NA	Solid	9045D	
500-100826-29	2618-7-B37 (0-2)	Total/NA	Solid	9045D	
500-100826-30	2618-7-B38 (0-2)	Total/NA	Solid	9045D	
500-100826-31	2618-7-B39 (0-2)	Total/NA	Solid	9045D	
500-100826-32	2618-7-B40 (0-2)	Total/NA	Solid	9045D	
500-100826-33	2618-7-B41 (0-2)	Total/NA	Solid	9045D	
500-100826-34	2618-7-B42 (0-2)	Total/NA	Solid	9045D	
500-100826-34 DU	2618-7-B42 (0-2)	Total/NA	Solid	9045D	
500-100826-35	2618-7-B43 (0-2)	Total/NA	Solid	9045D	
500-100826-35 DU	2618-7-B43 (0-2)	Total/NA	Solid	9045D	
500-100826-36	2618-7-B44 (0-2)	Total/NA	Solid	9045D	
500-100826-37	2618-7-B35 DUP (0-2)	Total/NA	Solid	9045D	
500-100826-38	2618-7-B20 DUP (0-2)	Total/NA	Solid	9045D	

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

**Matrix: Solid**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-100826-1	2618-7-B08 (0-2)	86	96	92	91
500-100826-2	2618-7-B10 (0-2)	83	94	89	88
500-100826-3	2618-7-B11 (0-2)	85	96	92	91
500-100826-4	2618-7-B12 (0-2)	85	95	92	91
500-100826-5	2618-7-B13 (0-2)	86	97	92	90
500-100826-6	2618-7-B14 (0-2)	87	96	94	89
500-100826-7	2618-7-B15 (0-2)	86	91	96	88
500-100826-8	2618-7-B16 (0-2)	82	95	93	89
500-100826-9	2618-7-B17 (0-2)	85	97	92	91
500-100826-10	2618-7-B18 (0-2)	85	99	98	87
500-100826-11	2618-7-B19 (0-2)	86	95	93	88
500-100826-12	2618-7-B20 (0-2)	88	99	97	90
500-100826-13	2618-7-B21 (0-2)	86	96	95	89
500-100826-14	2618-7-B22 (0-2)	85	98	93	90
500-100826-15	2618-7-B23 (0-2)	84	102	99	89
500-100826-16	2618-7-B24 (0-2)	84	99	98	88
500-100826-17	2618-7-B25 (0-2)	86	98	98	87
500-100826-18	2618-7-B26 (0-2)	86	100	96	89
500-100826-19	2618-7-B27 (0-2)	72	97	101	97
500-100826-20	2618-7-B28 (0-2)	84	102	98	90
500-100826-21	2618-7-B29 (0-2)	85	103	97	85
500-100826-22	2618-7-B30 (0-2)	88	102	100	90
500-100826-23	2618-7-B31 (0-2)	90	99	98	89
500-100826-24	2618-7-B32 (0-2)	84	101	100	87
500-100826-25	2618-7-B33 (0-2)	83	96	98	92
500-100826-26	2618-7-B34 (0-2)	85	101	103	89
500-100826-27	2618-7-B35 (0-2)	85	95	96	90
500-100826-28	2618-7-B36 (0-2)	85	100	100	89
500-100826-29	2618-7-B37 (0-2)	85	106	106	89
500-100826-30	2618-7-B38 (0-2)	86	103	100	88
500-100826-31	2618-7-B39 (0-2)	82	100	103	89
500-100826-32	2618-7-B40 (0-2)	85	104	107	88
500-100826-33	2618-7-B41 (0-2)	86	102	109	87
500-100826-34	2618-7-B42 (0-2)	83	100	108	89
500-100826-35	2618-7-B43 (0-2)	88	104	106	90
500-100826-36	2618-7-B44 (0-2)	84	101	106	87
500-100826-37	2618-7-B35 DUP (0-2)	85	109	111	87
500-100826-38	2618-7-B20 DUP (0-2)	84	105	110	89
LCS 500-303377/5	Lab Control Sample	88	93	91	92
LCS 500-303488/4	Lab Control Sample	95	94	93	93
LCSD 500-303377/6	Lab Control Sample Dup	89	91	88	94
LCSD 500-303488/5	Lab Control Sample Dup	88	92	94	92
MB 500-303377/7	Method Blank	84	91	81	91
MB 500-303488/6	Method Blank	85	96	92	87

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TestAmerica Chicago

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
500-100826-1	2618-7-B08 (0-2)	86	86	81	89	110	60
500-100826-1 MS	2618-7-B08 (0-2)	79	81	82	78	125	58
500-100826-1 MSD	2618-7-B08 (0-2)	66	79	82	82	152 X	59
500-100826-2	2618-7-B10 (0-2)	70	78	75	74	99	54
500-100826-3	2618-7-B11 (0-2)	69	84	73	80	79	54
500-100826-4	2618-7-B12 (0-2)	80	87	74	84	93	62
500-100826-5	2618-7-B13 (0-2)	73	95	76	86	87	53
500-100826-6	2618-7-B14 (0-2)	76	85	74	80	85	62
500-100826-7	2618-7-B15 (0-2)	65	83	68	83	79	61
500-100826-8	2618-7-B16 (0-2)	89	73	70	74	108	58
500-100826-9	2618-7-B17 (0-2)	78	79	76	79	109	60
500-100826-10	2618-7-B18 (0-2)	66	82	65	78	71	38
500-100826-11	2618-7-B19 (0-2)	84	86	77	84	107	56
500-100826-12	2618-7-B20 (0-2)	66	83	72	80	93	48
500-100826-13	2618-7-B21 (0-2)	84	83	74	81	118	52
500-100826-14	2618-7-B22 (0-2)	72	79	76	79	88	66
500-100826-15	2618-7-B23 (0-2)	82	83	74	75	86	74
500-100826-16	2618-7-B24 (0-2)	81	85	73	84	89	67
500-100826-17	2618-7-B25 (0-2)	70	72	59	76	131	79
500-100826-17 MS	2618-7-B25 (0-2)	66	73	58	82	166 X	85
500-100826-17 MSD	2618-7-B25 (0-2)	70	76	63	81	174 X	87
500-100826-18	2618-7-B26 (0-2)	99	90	75	101	168 X	98
500-100826-19	2618-7-B27 (0-2)	74	90	76	99	150 X	104
500-100826-20	2618-7-B28 (0-2)	94	91	84	110	185 X	98
500-100826-21	2618-7-B29 (0-2)	86	88	83	105	151 X	88
500-100826-22	2618-7-B30 (0-2)	93	93	89	108	165 X	93
500-100826-23	2618-7-B31 (0-2)	78	88	79	86	117	91
500-100826-23 MS	2618-7-B31 (0-2)	76	87	79	89	170 X	89
500-100826-23 MSD	2618-7-B31 (0-2)	75	82	75	85	171 X	85
500-100826-24	2618-7-B32 (0-2)	88	90	100	95	153 X	102
500-100826-25	2618-7-B33 (0-2)	100	95	93	90	159 X	106
500-100826-26	2618-7-B34 (0-2)	88	83	82	93	151 X	108
500-100826-27	2618-7-B35 (0-2)	83	86	76	93	145 X	52
500-100826-28	2618-7-B36 (0-2)	80	84	71	77	89	88
500-100826-29	2618-7-B37 (0-2)	78	85	74	97	169 X	97
500-100826-30	2618-7-B38 (0-2)	74	83	77	88	152 X	81
500-100826-31	2618-7-B39 (0-2)	76	72	70	87	187 X	93
500-100826-32	2618-7-B40 (0-2)	75	76	60	83	93	90
500-100826-33	2618-7-B41 (0-2)	73	74	63	70	121	78
500-100826-34	2618-7-B42 (0-2)	69	71	60	69	96	86
500-100826-35	2618-7-B43 (0-2)	81	88	73	91	102	92
500-100826-36	2618-7-B44 (0-2)	61	67	53	68	82	65
500-100826-37	2618-7-B35 DUP (0-2)	77	83	69	79	103	82
500-100826-38	2618-7-B20 DUP (0-2)	81	85	71	93	207 X	92
LCS 500-303295/2-A	Lab Control Sample	79	77	89	77	90	91
LCS 500-303412/2-A	Lab Control Sample	85	93	82	92	92	89
LCS 500-303414/2-A	Lab Control Sample	87	94	84	95	98	87

TestAmerica Chicago

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
LCS 500-303467/2-A	Lab Control Sample	84	85	97	84	95	96
MB 500-303295/1-A	Method Blank	87	76	92	84	93	84
MB 500-303412/1-A	Method Blank	87	78	74	65	86	53
MB 500-303414/1-A	Method Blank	98	91	88	83	100	78
MB 500-303467/1-A	Method Blank	92	87	97	85	98	98

### Surrogate Legend

FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
PHL = Phenol-d5  
TPH = Terphenyl-d14  
TBP = 2,4,6-Tribromophenol

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-303377/7**

**Matrix: Solid**

**Analysis Batch: 303377**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/08/15 15:10	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/08/15 15:10	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/08/15 15:10	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/08/15 15:10	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/08/15 15:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/08/15 15:10	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/08/15 15:10	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/08/15 15:10	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/08/15 15:10	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/08/15 15:10	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/08/15 15:10	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/08/15 15:10	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/08/15 15:10	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/08/15 15:10	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/08/15 15:10	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/08/15 15:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/08/15 15:10	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/08/15 15:10	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/08/15 15:10	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/08/15 15:10	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/08/15 15:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/08/15 15:10	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/08/15 15:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/08/15 15:10	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/08/15 15:10	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/08/15 15:10	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/08/15 15:10	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/08/15 15:10	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/08/15 15:10	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/08/15 15:10	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/08/15 15:10	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/08/15 15:10	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/08/15 15:10	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/08/15 15:10	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/08/15 15:10	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/08/15 15:10	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/08/15 15:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122		09/08/15 15:10	1
Dibromofluoromethane	91		75 - 120		09/08/15 15:10	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		09/08/15 15:10	1
Toluene-d8 (Surr)	91		75 - 122		09/08/15 15:10	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303377/5**

**Matrix: Solid**

**Analysis Batch: 303377**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0495		mg/Kg		99	50 - 133
Benzene	0.0500	0.0488		mg/Kg		98	70 - 120
Bromodichloromethane	0.0500	0.0511		mg/Kg		102	69 - 120
Bromoform	0.0500	0.0555		mg/Kg		111	51 - 127
Bromomethane	0.0500	0.0541		mg/Kg		108	69 - 120
2-Butanone (MEK)	0.0500	0.0530		mg/Kg		106	50 - 148
Carbon disulfide	0.0500	0.0505		mg/Kg		101	58 - 120
Carbon tetrachloride	0.0500	0.0519		mg/Kg		104	51 - 124
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0467		mg/Kg		93	49 - 125
Chloroform	0.0500	0.0497		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0544		mg/Kg		109	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 126
1,1-Dichloroethane	0.0500	0.0491		mg/Kg		98	70 - 120
1,2-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 128
1,1-Dichloroethene	0.0500	0.0518		mg/Kg		104	67 - 120
1,2-Dichloropropane	0.0500	0.0480		mg/Kg		96	70 - 120
Ethylbenzene	0.0500	0.0508		mg/Kg		102	70 - 120
2-Hexanone	0.0500	0.0535		mg/Kg		107	50 - 150
Methylene Chloride	0.0500	0.0516		mg/Kg		103	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0583		mg/Kg		117	50 - 150
Methyl tert-butyl ether	0.0500	0.0493		mg/Kg		99	70 - 120
Styrene	0.0500	0.0518		mg/Kg		104	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	70 - 133
Tetrachloroethene	0.0500	0.0510		mg/Kg		102	70 - 120
Toluene	0.0500	0.0496		mg/Kg		99	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0517		mg/Kg		103	70 - 120
1,1,1-Trichloroethane	0.0500	0.0532		mg/Kg		106	70 - 120
1,1,2-Trichloroethane	0.0500	0.0503		mg/Kg		101	70 - 120
Trichloroethene	0.0500	0.0522		mg/Kg		104	70 - 120
Vinyl acetate	0.0500	0.0446		mg/Kg		89	60 - 150
Vinyl chloride	0.0500	0.0438		mg/Kg		88	69 - 120
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 122
Dibromofluoromethane	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	91		70 - 134
Toluene-d8 (Surr)	92		75 - 122

**Lab Sample ID: LCSD 500-303377/6**

**Matrix: Solid**

**Analysis Batch: 303377**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0475		mg/Kg		95	50 - 133	4	30
Benzene	0.0500	0.0497		mg/Kg		99	70 - 120	2	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-303377/6**  
**Matrix: Solid**  
**Analysis Batch: 303377**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0522		mg/Kg		104	69 - 120	2	30
Bromoform	0.0500	0.0559		mg/Kg		112	51 - 127	1	30
Bromomethane	0.0500	0.0564		mg/Kg		113	69 - 120	4	30
2-Butanone (MEK)	0.0500	0.0496		mg/Kg		99	50 - 148	7	30
Carbon disulfide	0.0500	0.0478		mg/Kg		96	58 - 120	6	30
Carbon tetrachloride	0.0500	0.0502		mg/Kg		100	51 - 124	3	30
Chlorobenzene	0.0500	0.0514		mg/Kg		103	70 - 120	3	30
Chloroethane	0.0500	0.0473		mg/Kg		95	49 - 125	1	30
Chloroform	0.0500	0.0508		mg/Kg		102	70 - 120	2	30
Chloromethane	0.0500	0.0542		mg/Kg		108	63 - 126	0	30
cis-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 120	0	30
Dibromochloromethane	0.0500	0.0545		mg/Kg		109	69 - 126	3	30
1,1-Dichloroethane	0.0500	0.0495		mg/Kg		99	70 - 120	1	30
1,2-Dichloroethane	0.0500	0.0498		mg/Kg		100	70 - 128	1	30
1,1-Dichloroethene	0.0500	0.0505		mg/Kg		101	67 - 120	3	30
1,2-Dichloropropane	0.0500	0.0501		mg/Kg		100	70 - 120	4	30
Ethylbenzene	0.0500	0.0506		mg/Kg		101	70 - 120	0	30
2-Hexanone	0.0500	0.0522		mg/Kg		104	50 - 150	3	30
Methylene Chloride	0.0500	0.0492		mg/Kg		98	70 - 120	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0566		mg/Kg		113	50 - 150	3	30
Methyl tert-butyl ether	0.0500	0.0489		mg/Kg		98	70 - 120	1	30
Styrene	0.0500	0.0524		mg/Kg		105	70 - 120	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0531		mg/Kg		106	70 - 133	6	30
Tetrachloroethene	0.0500	0.0504		mg/Kg		101	70 - 120	1	30
Toluene	0.0500	0.0492		mg/Kg		98	70 - 120	1	30
trans-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 120	3	30
1,1,1-Trichloroethane	0.0500	0.0519		mg/Kg		104	70 - 120	2	30
1,1,2-Trichloroethane	0.0500	0.0529		mg/Kg		106	70 - 120	5	30
Trichloroethene	0.0500	0.0530		mg/Kg		106	70 - 120	2	30
Vinyl acetate	0.0500	0.0454		mg/Kg		91	60 - 150	2	30
Vinyl chloride	0.0500	0.0446		mg/Kg		89	69 - 120	2	30
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	89		70 - 122
Dibromofluoromethane	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	94		75 - 122

**Lab Sample ID: MB 500-303488/6**  
**Matrix: Solid**  
**Analysis Batch: 303488**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/09/15 11:27	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 11:27	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/09/15 11:27	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 11:27	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303488/6**  
**Matrix: Solid**  
**Analysis Batch: 303488**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 11:27	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 11:27	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 11:27	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 11:27	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 11:27	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/09/15 11:27	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/09/15 11:27	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 11:27	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 11:27	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 11:27	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/09/15 11:27	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 11:27	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/09/15 11:27	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 11:27	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 11:27	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 11:27	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 11:27	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/09/15 11:27	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/09/15 11:27	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 11:27	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 11:27	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 11:27	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/09/15 11:27	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 11:27	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/09/15 11:27	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 11:27	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 11:27	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 11:27	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/09/15 11:27	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 11:27	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 11:27	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 11:27	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/09/15 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122		09/09/15 11:27	1
Dibromofluoromethane	96		75 - 120		09/09/15 11:27	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		09/09/15 11:27	1
Toluene-d8 (Surr)	87		75 - 122		09/09/15 11:27	1

**Lab Sample ID: LCS 500-303488/4**  
**Matrix: Solid**  
**Analysis Batch: 303488**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0458		mg/Kg		92	50 - 133
Benzene	0.0500	0.0470		mg/Kg		94	70 - 120
Bromodichloromethane	0.0500	0.0515		mg/Kg		103	69 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303488/4**

**Matrix: Solid**

**Analysis Batch: 303488**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0555		mg/Kg		111	51 - 127
Bromomethane	0.0500	0.0575		mg/Kg		115	69 - 120
2-Butanone (MEK)	0.0500	0.0537		mg/Kg		107	50 - 148
Carbon disulfide	0.0500	0.0414		mg/Kg		83	58 - 120
Carbon tetrachloride	0.0500	0.0531		mg/Kg		106	51 - 124
Chlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0474		mg/Kg		95	49 - 125
Chloroform	0.0500	0.0497		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0608		mg/Kg		122	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 120
Dibromochloromethane	0.0500	0.0519		mg/Kg		104	69 - 126
1,1-Dichloroethane	0.0500	0.0486		mg/Kg		97	70 - 120
1,2-Dichloroethane	0.0500	0.0515		mg/Kg		103	70 - 128
1,1-Dichloroethene	0.0500	0.0484		mg/Kg		97	67 - 120
1,2-Dichloropropane	0.0500	0.0472		mg/Kg		94	70 - 120
Ethylbenzene	0.0500	0.0496		mg/Kg		99	70 - 120
2-Hexanone	0.0500	0.0505		mg/Kg		101	50 - 150
Methylene Chloride	0.0500	0.0444		mg/Kg		89	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0570		mg/Kg		114	50 - 150
Methyl tert-butyl ether	0.0500	0.0472		mg/Kg		94	70 - 120
Styrene	0.0500	0.0514		mg/Kg		103	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0452		mg/Kg		90	70 - 133
Tetrachloroethene	0.0500	0.0497		mg/Kg		99	70 - 120
Toluene	0.0500	0.0472		mg/Kg		94	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120
1,1,1-Trichloroethane	0.0500	0.0538		mg/Kg		108	70 - 120
1,1,2-Trichloroethane	0.0500	0.0490		mg/Kg		98	70 - 120
Trichloroethene	0.0500	0.0515		mg/Kg		103	70 - 120
Vinyl acetate	0.0500	0.0585		mg/Kg		117	60 - 150
Vinyl chloride	0.0500	0.0418		mg/Kg		84	69 - 120
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 122
Dibromofluoromethane	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	93		75 - 122

**Lab Sample ID: LCSD 500-303488/5**

**Matrix: Solid**

**Analysis Batch: 303488**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0425		mg/Kg		85	50 - 133	7	30
Benzene	0.0500	0.0466		mg/Kg		93	70 - 120	1	30
Bromodichloromethane	0.0500	0.0502		mg/Kg		100	69 - 120	3	30
Bromoform	0.0500	0.0543		mg/Kg		109	51 - 127	2	30
Bromomethane	0.0500	0.0518		mg/Kg		104	69 - 120	11	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-303488/5**  
**Matrix: Solid**  
**Analysis Batch: 303488**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0528		mg/Kg		106	50 - 148	2	30
Carbon disulfide	0.0500	0.0436		mg/Kg		87	58 - 120	5	30
Carbon tetrachloride	0.0500	0.0506		mg/Kg		101	51 - 124	5	30
Chlorobenzene	0.0500	0.0468		mg/Kg		94	70 - 120	6	30
Chloroethane	0.0500	0.0383		mg/Kg		77	49 - 125	21	30
Chloroform	0.0500	0.0483		mg/Kg		97	70 - 120	3	30
Chloromethane	0.0500	0.0546		mg/Kg		109	63 - 126	11	30
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 120	4	30
Dibromochloromethane	0.0500	0.0511		mg/Kg		102	69 - 126	2	30
1,1-Dichloroethane	0.0500	0.0471		mg/Kg		94	70 - 120	3	30
1,2-Dichloroethane	0.0500	0.0506		mg/Kg		101	70 - 128	2	30
1,1-Dichloroethene	0.0500	0.0473		mg/Kg		95	67 - 120	2	30
1,2-Dichloropropane	0.0500	0.0474		mg/Kg		95	70 - 120	0	30
Ethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 120	5	30
2-Hexanone	0.0500	0.0541		mg/Kg		108	50 - 150	7	30
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 120	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0583		mg/Kg		117	50 - 150	2	30
Methyl tert-butyl ether	0.0500	0.0476		mg/Kg		95	70 - 120	1	30
Styrene	0.0500	0.0497		mg/Kg		99	70 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0477		mg/Kg		95	70 - 133	5	30
Tetrachloroethene	0.0500	0.0484		mg/Kg		97	70 - 120	3	30
Toluene	0.0500	0.0457		mg/Kg		91	70 - 120	3	30
trans-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120	2	30
1,1,1-Trichloroethane	0.0500	0.0511		mg/Kg		102	70 - 120	5	30
1,1,2-Trichloroethane	0.0500	0.0483		mg/Kg		97	70 - 120	2	30
Trichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120	6	30
Vinyl acetate	0.0500	0.0564		mg/Kg		113	60 - 150	4	30
Vinyl chloride	0.0500	0.0425		mg/Kg		85	69 - 120	2	30
Xylenes, Total	0.100	0.0955		mg/Kg		95	70 - 120	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	88		70 - 122
Dibromofluoromethane	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	94		70 - 134
Toluene-d8 (Surr)	92		75 - 122

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-303295/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303450**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303295**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/08/15 07:53	09/09/15 01:16	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303295/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303450**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303295**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/08/15 07:53	09/09/15 01:16	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303295/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303450**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303295**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/08/15 07:53	09/09/15 01:16	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/08/15 07:53	09/09/15 01:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/08/15 07:53	09/09/15 01:16	1
2-Fluorophenol	76		25 - 110	09/08/15 07:53	09/09/15 01:16	1
Nitrobenzene-d5	92		25 - 115	09/08/15 07:53	09/09/15 01:16	1
Phenol-d5	84		31 - 110	09/08/15 07:53	09/09/15 01:16	1
Terphenyl-d14	93		36 - 134	09/08/15 07:53	09/09/15 01:16	1
2,4,6-Tribromophenol	84		35 - 137	09/08/15 07:53	09/09/15 01:16	1

**Lab Sample ID: LCS 500-303295/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303450**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303295**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.08		mg/Kg		81	46 - 110
Acenaphthylene	1.33	1.09		mg/Kg		81	49 - 110
Anthracene	1.33	1.03		mg/Kg		78	48 - 118
Benzo[a]anthracene	1.33	1.18		mg/Kg		88	49 - 121
Benzo[a]pyrene	1.33	1.18		mg/Kg		89	53 - 122
Benzo[b]fluoranthene	1.33	1.13		mg/Kg		85	54 - 122
Benzo[g,h,i]perylene	1.33	1.32		mg/Kg		99	52 - 125
Benzo[k]fluoranthene	1.33	1.04		mg/Kg		78	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.08		mg/Kg		81	42 - 110
Bis(2-chloroethyl)ether	1.33	0.981		mg/Kg		74	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.14		mg/Kg		85	47 - 133
4-Bromophenyl phenyl ether	1.33	1.12		mg/Kg		84	55 - 113
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	49 - 121
Carbazole	1.33	1.26		mg/Kg		95	26 - 188
4-Chloroaniline	1.33	0.917		mg/Kg		69	16 - 118
4-Chloro-3-methylphenol	1.33	1.14		mg/Kg		86	52 - 111
2-Chloronaphthalene	1.33	1.07		mg/Kg		80	52 - 114
2-Chlorophenol	1.33	1.10		mg/Kg		82	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.08		mg/Kg		81	53 - 117
Chrysene	1.33	1.12		mg/Kg		84	45 - 118
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	48 - 134
Dibenzofuran	1.33	1.07		mg/Kg		80	51 - 119
1,2-Dichlorobenzene	1.33	0.983		mg/Kg		74	48 - 110

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303295/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303450**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303295**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1.33	1.01		mg/Kg		76	44 - 110
1,4-Dichlorobenzene	1.33	1.01		mg/Kg		76	45 - 110
3,3'-Dichlorobenzidine	1.33	1.11		mg/Kg		83	26 - 128
2,4-Dichlorophenol	1.33	1.29		mg/Kg		97	53 - 113
Diethyl phthalate	1.33	1.10		mg/Kg		82	50 - 128
2,4-Dimethylphenol	1.33	1.03		mg/Kg		77	49 - 110
Dimethyl phthalate	1.33	1.09		mg/Kg		82	56 - 113
Di-n-butyl phthalate	1.33	1.12		mg/Kg		84	50 - 128
4,6-Dinitro-2-methylphenol	2.67	1.97		mg/Kg		74	10 - 110
2,4-Dinitrophenol	2.67	0.637	J	mg/Kg		24	10 - 110
2,4-Dinitrotoluene	1.33	1.15		mg/Kg		86	53 - 122
2,6-Dinitrotoluene	1.33	1.13		mg/Kg		85	54 - 117
Di-n-octyl phthalate	1.33	1.07		mg/Kg		80	46 - 138
Fluoranthene	1.33	1.10		mg/Kg		83	48 - 128
Fluorene	1.33	1.04		mg/Kg		78	47 - 121
Hexachlorobenzene	1.33	1.15		mg/Kg		86	54 - 114
Hexachlorobutadiene	1.33	1.15		mg/Kg		86	47 - 114
Hexachlorocyclopentadiene	1.33	0.707		mg/Kg		53	10 - 110
Hexachloroethane	1.33	1.04		mg/Kg		78	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.32		mg/Kg		99	49 - 132
Isophorone	1.33	1.08		mg/Kg		81	35 - 110
2-Methylnaphthalene	1.33	1.01		mg/Kg		75	48 - 110
2-Methylphenol	1.33	1.00		mg/Kg		75	44 - 110
3 & 4 Methylphenol	1.33	1.07		mg/Kg		80	37 - 122
Naphthalene	1.33	1.08		mg/Kg		81	48 - 110
2-Nitroaniline	1.33	1.16		mg/Kg		87	42 - 122
3-Nitroaniline	1.33	0.887		mg/Kg		67	36 - 131
4-Nitroaniline	1.33	1.38		mg/Kg		103	28 - 157
Nitrobenzene	1.33	1.20		mg/Kg		90	35 - 113
2-Nitrophenol	1.33	1.20		mg/Kg		90	48 - 113
4-Nitrophenol	2.67	2.96		mg/Kg		111	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.07		mg/Kg		80	24 - 123
N-Nitrosodiphenylamine	2.67	2.12		mg/Kg		80	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	0.864		mg/Kg		65	30 - 115
Pentachlorophenol	2.67	2.17		mg/Kg		81	10 - 124
Phenanthrene	1.33	1.06		mg/Kg		80	48 - 121
Phenol	1.33	1.05		mg/Kg		78	41 - 110
Pyrene	1.33	1.10		mg/Kg		83	46 - 114
1,2,4-Trichlorobenzene	1.33	1.18		mg/Kg		88	49 - 110
2,4,5-Trichlorophenol	1.33	1.08		mg/Kg		81	41 - 120
2,4,6-Trichlorophenol	1.33	1.12		mg/Kg		84	44 - 118

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	79		25 - 119
2-Fluorophenol	77		25 - 110
Nitrobenzene-d5	89		25 - 115
Phenol-d5	77		31 - 110
Terphenyl-d14	90		36 - 134

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303295/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303450**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303295**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	91		35 - 137

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303944**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303295**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.040		1.62	1.15		mg/Kg	☼	71	46 - 110
Acenaphthylene	<0.040		1.62	1.28		mg/Kg	☼	79	49 - 110
Anthracene	0.015	J	1.62	1.16		mg/Kg	☼	71	48 - 118
Benzo[a]anthracene	0.17		1.62	1.26		mg/Kg	☼	67	49 - 121
Benzo[a]pyrene	0.19		1.62	1.40		mg/Kg	☼	75	53 - 122
Benzo[b]fluoranthene	0.36		1.62	1.77		mg/Kg	☼	87	54 - 122
Benzo[g,h,i]perylene	0.094	F1	1.62	0.807	F1	mg/Kg	☼	44	52 - 125
Benzo[k]fluoranthene	0.13		1.62	1.70		mg/Kg	☼	97	44 - 137
Bis(2-chloroethoxy)methane	<0.20		1.62	1.26		mg/Kg	☼	78	42 - 110
Bis(2-chloroethyl)ether	<0.20		1.62	1.29		mg/Kg	☼	80	32 - 110
Bis(2-ethylhexyl) phthalate	0.29	F1	1.62	2.49	F1	mg/Kg	☼	136	47 - 133
4-Bromophenyl phenyl ether	<0.20		1.62	1.23		mg/Kg	☼	76	55 - 113
Butyl benzyl phthalate	<0.20	F1	1.62	2.16	F1	mg/Kg	☼	134	49 - 121
Carbazole	<0.20		1.62	1.37		mg/Kg	☼	84	26 - 188
4-Chloroaniline	<0.81		1.62	1.22		mg/Kg	☼	75	16 - 118
4-Chloro-3-methylphenol	<0.40		1.62	1.36		mg/Kg	☼	84	52 - 111
2-Chloronaphthalene	<0.20		1.62	1.40		mg/Kg	☼	86	52 - 114
2-Chlorophenol	<0.20		1.62	1.28		mg/Kg	☼	79	47 - 114
4-Chlorophenyl phenyl ether	<0.20		1.62	1.30		mg/Kg	☼	80	53 - 117
Chrysene	0.26		1.62	1.27		mg/Kg	☼	62	45 - 118
Dibenz(a,h)anthracene	0.032	J	1.62	0.871		mg/Kg	☼	52	48 - 134
Dibenzofuran	<0.20		1.62	1.27		mg/Kg	☼	79	51 - 119
1,2-Dichlorobenzene	<0.20		1.62	1.16		mg/Kg	☼	72	48 - 110
1,3-Dichlorobenzene	<0.20		1.62	1.18		mg/Kg	☼	73	44 - 110
1,4-Dichlorobenzene	<0.20		1.62	1.18		mg/Kg	☼	73	45 - 110
3,3'-Dichlorobenzidine	<0.20	F1	1.62	0.294	F1	mg/Kg	☼	18	26 - 128
2,4-Dichlorophenol	<0.40		1.62	1.28		mg/Kg	☼	79	53 - 113
Diethyl phthalate	<0.20		1.62	1.39		mg/Kg	☼	86	50 - 128
2,4-Dimethylphenol	<0.40		1.62	1.25		mg/Kg	☼	77	49 - 110
Dimethyl phthalate	<0.20		1.62	1.41		mg/Kg	☼	87	56 - 113
Di-n-butyl phthalate	<0.20		1.62	1.47		mg/Kg	☼	91	50 - 128
4,6-Dinitro-2-methylphenol	<0.81		3.23	0.640	J	mg/Kg	☼	20	10 - 110
2,4-Dinitrophenol	<0.81	F1	3.23	<0.81	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrotoluene	<0.20		1.62	1.32		mg/Kg	☼	82	53 - 122
2,6-Dinitrotoluene	<0.20		1.62	1.48		mg/Kg	☼	91	54 - 117
Di-n-octyl phthalate	<0.20	F1	1.62	5.73	E F1	mg/Kg	☼	354	46 - 138
Fluoranthene	0.27		1.62	1.06		mg/Kg	☼	49	48 - 128
Fluorene	0.0074	J	1.62	1.16		mg/Kg	☼	72	47 - 121
Hexachlorobenzene	<0.081		1.62	1.14		mg/Kg	☼	70	54 - 114
Hexachlorobutadiene	<0.20		1.62	1.15		mg/Kg	☼	71	47 - 114
Hexachlorocyclopentadiene	<0.81		1.62	0.237	J	mg/Kg	☼	15	10 - 110

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-1 MS**

**Matrix: Solid**

**Analysis Batch: 303944**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303295**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexachloroethane	<0.20		1.62	1.05		mg/Kg	☼	65	44 - 110
Indeno[1,2,3-cd]pyrene	0.10	F1	1.62	0.866	F1	mg/Kg	☼	47	49 - 132
Isophorone	<0.20		1.62	1.35		mg/Kg	☼	84	35 - 110
2-Methylnaphthalene	<0.040		1.62	1.28		mg/Kg	☼	79	48 - 110
2-Methylphenol	<0.20		1.62	1.24		mg/Kg	☼	77	44 - 110
3 & 4 Methylphenol	<0.20		1.62	1.34		mg/Kg	☼	83	37 - 122
Naphthalene	<0.040		1.62	1.23		mg/Kg	☼	76	48 - 110
2-Nitroaniline	<0.20		1.62	1.55		mg/Kg	☼	96	42 - 122
3-Nitroaniline	<0.40		1.62	1.29		mg/Kg	☼	80	36 - 131
4-Nitroaniline	<0.40		1.62	1.57		mg/Kg	☼	97	28 - 157
Nitrobenzene	<0.040		1.62	1.27		mg/Kg	☼	79	35 - 113
2-Nitrophenol	<0.40		1.62	1.30		mg/Kg	☼	80	48 - 113
4-Nitrophenol	<0.81		3.23	2.79		mg/Kg	☼	86	10 - 157
N-Nitrosodi-n-propylamine	<0.20		1.62	1.16		mg/Kg	☼	72	24 - 123
N-Nitrosodiphenylamine	<0.20		3.23	2.76		mg/Kg	☼	85	52 - 111
2,2'-oxybis[1-chloropropane]	<0.20		1.62	1.20		mg/Kg	☼	74	30 - 115
Pentachlorophenol	<0.81	F1	3.23	<0.81	F1	mg/Kg	☼	0	10 - 124
Phenanthrene	0.13		1.62	1.22		mg/Kg	☼	67	48 - 121
Phenol	<0.20		1.62	1.28		mg/Kg	☼	80	41 - 110
Pyrene	0.32		1.62	1.98		mg/Kg	☼	103	46 - 114
1,2,4-Trichlorobenzene	<0.20		1.62	1.28		mg/Kg	☼	79	49 - 110
2,4,5-Trichlorophenol	<0.40		1.62	1.40		mg/Kg	☼	86	41 - 120
2,4,6-Trichlorophenol	<0.40		1.62	1.39		mg/Kg	☼	86	44 - 118

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	79		25 - 119
2-Fluorophenol	81		25 - 110
Nitrobenzene-d5	82		25 - 115
Phenol-d5	78		31 - 110
Terphenyl-d14	125		36 - 134
2,4,6-Tribromophenol	58		35 - 137

**Lab Sample ID: 500-100826-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303944**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303295**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	<0.040		1.63	1.15		mg/Kg	☼	70	46 - 110	0	30
Acenaphthylene	<0.040		1.63	1.21		mg/Kg	☼	74	49 - 110	5	30
Anthracene	0.015	J	1.63	1.17		mg/Kg	☼	71	48 - 118	1	30
Benzo[a]anthracene	0.17		1.63	1.30		mg/Kg	☼	69	49 - 121	4	30
Benzo[a]pyrene	0.19		1.63	1.35		mg/Kg	☼	71	53 - 122	4	30
Benzo[b]fluoranthene	0.36		1.63	1.75		mg/Kg	☼	85	54 - 122	1	30
Benzo[g,h,i]perylene	0.094	F1	1.63	0.953		mg/Kg	☼	53	52 - 125	17	30
Benzo[k]fluoranthene	0.13		1.63	1.71		mg/Kg	☼	97	44 - 137	1	30
Bis(2-chloroethoxy)methane	<0.20		1.63	1.40		mg/Kg	☼	85	42 - 110	10	30
Bis(2-chloroethyl)ether	<0.20		1.63	1.43		mg/Kg	☼	88	32 - 110	10	30
Bis(2-ethylhexyl) phthalate	0.29	F1	1.63	2.59	F1	mg/Kg	☼	140	47 - 133	4	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303944**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303295**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Bromophenyl phenyl ether	<0.20		1.63	1.26		mg/Kg	☼	77	55 - 113	2	30
Butyl benzyl phthalate	<0.20	F1	1.63	2.50	F1	mg/Kg	☼	153	49 - 121	14	30
Carbazole	<0.20		1.63	1.35		mg/Kg	☼	83	26 - 188	1	30
4-Chloroaniline	<0.81		1.63	0.977		mg/Kg	☼	60	16 - 118	22	30
4-Chloro-3-methylphenol	<0.40		1.63	1.35		mg/Kg	☼	83	52 - 111	0	30
2-Chloronaphthalene	<0.20		1.63	1.13		mg/Kg	☼	69	52 - 114	21	30
2-Chlorophenol	<0.20		1.63	1.35		mg/Kg	☼	82	47 - 114	5	30
4-Chlorophenyl phenyl ether	<0.20		1.63	1.33		mg/Kg	☼	82	53 - 117	3	30
Chrysene	0.26		1.63	1.32		mg/Kg	☼	65	45 - 118	4	30
Dibenz(a,h)anthracene	0.032	J	1.63	0.992		mg/Kg	☼	59	48 - 134	13	30
Dibenzofuran	<0.20		1.63	1.26		mg/Kg	☼	77	51 - 119	1	30
1,2-Dichlorobenzene	<0.20		1.63	1.22		mg/Kg	☼	74	48 - 110	4	30
1,3-Dichlorobenzene	<0.20		1.63	1.15		mg/Kg	☼	71	44 - 110	2	30
1,4-Dichlorobenzene	<0.20		1.63	1.15		mg/Kg	☼	70	45 - 110	3	30
3,3'-Dichlorobenzidine	<0.20	F1	1.63	0.161	J F1 F2	mg/Kg	☼	10	26 - 128	59	30
2,4-Dichlorophenol	<0.40		1.63	1.35		mg/Kg	☼	83	53 - 113	5	30
Diethyl phthalate	<0.20		1.63	1.41		mg/Kg	☼	86	50 - 128	1	30
2,4-Dimethylphenol	<0.40		1.63	1.36		mg/Kg	☼	83	49 - 110	8	30
Dimethyl phthalate	<0.20		1.63	1.12		mg/Kg	☼	68	56 - 113	23	30
Di-n-butyl phthalate	<0.20		1.63	1.41		mg/Kg	☼	86	50 - 128	4	30
4,6-Dinitro-2-methylphenol	<0.81		3.27	0.697	J	mg/Kg	☼	21	10 - 110	8	30
2,4-Dinitrophenol	<0.81	F1	3.27	<0.82	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrotoluene	<0.20		1.63	1.35		mg/Kg	☼	82	53 - 122	2	30
2,6-Dinitrotoluene	<0.20		1.63	1.45		mg/Kg	☼	89	54 - 117	1	30
Di-n-octyl phthalate	<0.20	F1	1.63	5.73	E F1	mg/Kg	☼	351	46 - 138	0	30
Fluoranthene	0.27		1.63	1.01	F1	mg/Kg	☼	45	48 - 128	5	30
Fluorene	0.0074	J	1.63	1.18		mg/Kg	☼	72	47 - 121	2	30
Hexachlorobenzene	<0.081		1.63	1.12		mg/Kg	☼	69	54 - 114	1	30
Hexachlorobutadiene	<0.20		1.63	1.04		mg/Kg	☼	64	47 - 114	10	30
Hexachlorocyclopentadiene	<0.81		1.63	<0.82	F1	mg/Kg	☼	0	10 - 110	NC	30
Hexachloroethane	<0.20		1.63	1.03		mg/Kg	☼	63	44 - 110	2	30
Indeno[1,2,3-cd]pyrene	0.10	F1	1.63	1.04		mg/Kg	☼	58	49 - 132	18	30
Isophorone	<0.20		1.63	1.35		mg/Kg	☼	83	35 - 110	0	30
2-Methylnaphthalene	<0.040		1.63	1.07		mg/Kg	☼	65	48 - 110	18	30
2-Methylphenol	<0.20		1.63	1.42		mg/Kg	☼	87	44 - 110	14	30
3 & 4 Methylphenol	<0.20		1.63	1.42		mg/Kg	☼	87	37 - 122	6	30
Naphthalene	<0.040		1.63	1.25		mg/Kg	☼	77	48 - 110	2	30
2-Nitroaniline	<0.20		1.63	1.24		mg/Kg	☼	76	42 - 122	23	30
3-Nitroaniline	<0.40		1.63	1.41		mg/Kg	☼	86	36 - 131	9	30
4-Nitroaniline	<0.40		1.63	1.52		mg/Kg	☼	93	28 - 157	3	30
Nitrobenzene	<0.040		1.63	1.21		mg/Kg	☼	74	35 - 113	5	30
2-Nitrophenol	<0.40		1.63	1.42		mg/Kg	☼	87	48 - 113	9	30
4-Nitrophenol	<0.81		3.27	2.89		mg/Kg	☼	89	10 - 157	4	30
N-Nitrosodi-n-propylamine	<0.20		1.63	1.23		mg/Kg	☼	75	24 - 123	5	30
N-Nitrosodiphenylamine	<0.20		3.27	2.56		mg/Kg	☼	78	52 - 111	8	30
2,2'-oxybis[1-chloropropane]	<0.20		1.63	1.39		mg/Kg	☼	85	30 - 115	15	30
Pentachlorophenol	<0.81	F1	3.27	<0.82	F1	mg/Kg	☼	0	10 - 124	NC	30
Phenanthrene	0.13		1.63	1.21		mg/Kg	☼	66	48 - 121	2	30

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303944**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303295**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.20		1.63	1.38		mg/Kg	☼	84	41 - 110	7	30
Pyrene	0.32		1.63	2.49	F1	mg/Kg	☼	133	46 - 114	23	30
1,2,4-Trichlorobenzene	<0.20		1.63	1.19		mg/Kg	☼	73	49 - 110	7	30
2,4,5-Trichlorophenol	<0.40		1.63	1.21		mg/Kg	☼	74	41 - 120	15	30
2,4,6-Trichlorophenol	<0.40		1.63	1.17		mg/Kg	☼	72	44 - 118	17	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	66		25 - 119
2-Fluorophenol	79		25 - 110
Nitrobenzene-d5	82		25 - 115
Phenol-d5	82		31 - 110
Terphenyl-d14	152	X	36 - 134
2,4,6-Tribromophenol	59		35 - 137

**Lab Sample ID: MB 500-303412/1-A**

**Matrix: Solid**

**Analysis Batch: 303821**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303412**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/08/15 15:52	09/11/15 01:23	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303412/1-A**

**Matrix: Solid**

**Analysis Batch: 303821**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303412**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/08/15 15:52	09/11/15 01:23	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/08/15 15:52	09/11/15 01:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	87		25 - 119	09/08/15 15:52	09/11/15 01:23	1
2-Fluorophenol	78		25 - 110	09/08/15 15:52	09/11/15 01:23	1
Nitrobenzene-d5	74		25 - 115	09/08/15 15:52	09/11/15 01:23	1
Phenol-d5	65		31 - 110	09/08/15 15:52	09/11/15 01:23	1
Terphenyl-d14	86		36 - 134	09/08/15 15:52	09/11/15 01:23	1
2,4,6-Tribromophenol	53		35 - 137	09/08/15 15:52	09/11/15 01:23	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303412/2-A**

**Matrix: Solid**

**Analysis Batch: 303821**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303412**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.12		mg/Kg		84	46 - 110
Acenaphthylene	1.33	1.19		mg/Kg		89	49 - 110
Anthracene	1.33	1.20		mg/Kg		90	48 - 118
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	49 - 121
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	53 - 122
Benzo[b]fluoranthene	1.33	1.22		mg/Kg		92	54 - 122
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	52 - 125
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		95	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.22		mg/Kg		91	42 - 110
Bis(2-chloroethyl)ether	1.33	1.22		mg/Kg		91	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		98	47 - 133
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	55 - 113
Butyl benzyl phthalate	1.33	1.22		mg/Kg		91	49 - 121
Carbazole	1.33	1.35		mg/Kg		101	26 - 188
4-Chloroaniline	1.33	1.17		mg/Kg		88	16 - 118
4-Chloro-3-methylphenol	1.33	1.22		mg/Kg		92	52 - 111
2-Chloronaphthalene	1.33	1.22		mg/Kg		91	52 - 114
2-Chlorophenol	1.33	1.18		mg/Kg		89	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.19		mg/Kg		89	53 - 117
Chrysene	1.33	1.25		mg/Kg		94	45 - 118
Dibenz(a,h)anthracene	1.33	1.25		mg/Kg		93	48 - 134
Dibenzofuran	1.33	1.17		mg/Kg		88	51 - 119
1,2-Dichlorobenzene	1.33	1.14		mg/Kg		85	48 - 110
1,3-Dichlorobenzene	1.33	1.11		mg/Kg		83	44 - 110
1,4-Dichlorobenzene	1.33	1.13		mg/Kg		85	45 - 110
3,3'-Dichlorobenzidine	1.33	1.17		mg/Kg		88	26 - 128
2,4-Dichlorophenol	1.33	1.21		mg/Kg		91	53 - 113
Diethyl phthalate	1.33	1.14		mg/Kg		86	50 - 128
2,4-Dimethylphenol	1.33	1.20		mg/Kg		90	49 - 110
Dimethyl phthalate	1.33	1.18		mg/Kg		89	56 - 113
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	50 - 128
4,6-Dinitro-2-methylphenol	2.67	1.06		mg/Kg		40	10 - 110
2,4-Dinitrophenol	2.67	0.647	J	mg/Kg		24	10 - 110
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	53 - 122
2,6-Dinitrotoluene	1.33	1.25		mg/Kg		94	54 - 117
Di-n-octyl phthalate	1.33	1.24		mg/Kg		93	46 - 138
Fluoranthene	1.33	1.23		mg/Kg		92	48 - 128
Fluorene	1.33	1.13		mg/Kg		84	47 - 121
Hexachlorobenzene	1.33	1.22		mg/Kg		91	54 - 114
Hexachlorobutadiene	1.33	1.14		mg/Kg		85	47 - 114
Hexachlorocyclopentadiene	1.33	0.445	J	mg/Kg		33	10 - 110
Hexachloroethane	1.33	1.10		mg/Kg		82	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.54		mg/Kg		116	49 - 132
Isophorone	1.33	1.21		mg/Kg		90	35 - 110
2-Methylnaphthalene	1.33	1.13		mg/Kg		85	48 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	44 - 110
3 & 4 Methylphenol	1.33	1.15		mg/Kg		87	37 - 122
Naphthalene	1.33	1.14		mg/Kg		86	48 - 110

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303412/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303821**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303412**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1.33	1.25		mg/Kg		94	42 - 122
3-Nitroaniline	1.33	1.22		mg/Kg		91	36 - 131
4-Nitroaniline	1.33	1.42		mg/Kg		106	28 - 157
Nitrobenzene	1.33	1.15		mg/Kg		86	35 - 113
2-Nitrophenol	1.33	1.29		mg/Kg		96	48 - 113
4-Nitrophenol	2.67	1.90		mg/Kg		71	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.14		mg/Kg		86	24 - 123
N-Nitrosodiphenylamine	2.67	2.38		mg/Kg		89	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	1.32		mg/Kg		99	30 - 115
Pentachlorophenol	2.67	1.50		mg/Kg		56	10 - 124
Phenanthrene	1.33	1.22		mg/Kg		91	48 - 121
Phenol	1.33	1.20		mg/Kg		90	41 - 110
Pyrene	1.33	1.17		mg/Kg		87	46 - 114
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	49 - 110
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	41 - 120
2,4,6-Trichlorophenol	1.33	1.17		mg/Kg		88	44 - 118

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	85		25 - 119
2-Fluorophenol	93		25 - 110
Nitrobenzene-d5	82		25 - 115
Phenol-d5	92		31 - 110
Terphenyl-d14	92		36 - 134
2,4,6-Tribromophenol	89		35 - 137

**Lab Sample ID: 500-100826-23 MS**  
**Matrix: Solid**  
**Analysis Batch: 303995**

**Client Sample ID: 2618-7-B31 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303412**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.025	J	1.58	1.29		mg/Kg	☼	80	46 - 110
Acenaphthylene	0.011	J	1.58	1.32		mg/Kg	☼	83	49 - 110
Anthracene	0.13		1.58	1.85		mg/Kg	☼	109	48 - 118
Benzo[a]anthracene	0.32	F1 F2	1.58	2.47	F1	mg/Kg	☼	136	49 - 121
Benzo[a]pyrene	0.37	F1	1.58	2.38	F1	mg/Kg	☼	127	53 - 122
Benzo[b]fluoranthene	0.62	F1 F2	1.58	3.07	E F1	mg/Kg	☼	154	54 - 122
Benzo[g,h,i]perylene	0.13		1.58	1.20		mg/Kg	☼	68	52 - 125
Benzo[k]fluoranthene	0.19	F1	1.58	2.38	F1	mg/Kg	☼	138	44 - 137
Bis(2-chloroethoxy)methane	<0.20		1.58	1.25		mg/Kg	☼	79	42 - 110
Bis(2-chloroethyl)ether	<0.20		1.58	1.23		mg/Kg	☼	78	32 - 110
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.58	2.24	F1	mg/Kg	☼	142	47 - 133
4-Bromophenyl phenyl ether	<0.20		1.58	1.40		mg/Kg	☼	88	55 - 113
Butyl benzyl phthalate	<0.20	F1	1.58	2.43	F1	mg/Kg	☼	153	49 - 121
Carbazole	<0.20		1.58	1.59		mg/Kg	☼	100	26 - 188
4-Chloroaniline	<0.79		1.58	0.687	J	mg/Kg	☼	43	16 - 118
4-Chloro-3-methylphenol	<0.39		1.58	1.39		mg/Kg	☼	88	52 - 111
2-Chloronaphthalene	<0.20		1.58	1.27		mg/Kg	☼	80	52 - 114
2-Chlorophenol	<0.20		1.58	1.32		mg/Kg	☼	84	47 - 114

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-23 MS**

**Matrix: Solid**

**Analysis Batch: 303995**

**Client Sample ID: 2618-7-B31 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303412**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Chlorophenyl phenyl ether	<0.20		1.58	1.30		mg/Kg	☼	82	53 - 117
Chrysene	0.37	F1 F2	1.58	2.59	F1	mg/Kg	☼	140	45 - 118
Dibenz(a,h)anthracene	0.037	J	1.58	0.988		mg/Kg	☼	60	48 - 134
Dibenzofuran	<0.20		1.58	1.35		mg/Kg	☼	85	51 - 119
1,2-Dichlorobenzene	<0.20		1.58	1.19		mg/Kg	☼	75	48 - 110
1,3-Dichlorobenzene	<0.20		1.58	1.15		mg/Kg	☼	73	44 - 110
1,4-Dichlorobenzene	<0.20		1.58	1.16		mg/Kg	☼	74	45 - 110
3,3'-Dichlorobenzidine	<0.20		1.58	0.866		mg/Kg	☼	55	26 - 128
2,4-Dichlorophenol	<0.39		1.58	1.30		mg/Kg	☼	82	53 - 113
Diethyl phthalate	<0.20		1.58	1.36		mg/Kg	☼	86	50 - 128
2,4-Dimethylphenol	<0.39		1.58	1.31		mg/Kg	☼	83	49 - 110
Dimethyl phthalate	<0.20		1.58	1.28		mg/Kg	☼	81	56 - 113
Di-n-butyl phthalate	<0.20		1.58	1.38		mg/Kg	☼	87	50 - 128
4,6-Dinitro-2-methylphenol	<0.79	F1	3.17	<0.80	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrophenol	<0.79		3.17	0.999		mg/Kg	☼	32	10 - 110
2,4-Dinitrotoluene	<0.20		1.58	1.08		mg/Kg	☼	68	53 - 122
2,6-Dinitrotoluene	<0.20		1.58	1.18		mg/Kg	☼	75	54 - 117
Di-n-octyl phthalate	<0.20	F1	1.58	0.686	F1	mg/Kg	☼	43	46 - 138
Fluoranthene	0.71	F1 F2	1.58	3.32	E F1	mg/Kg	☼	165	48 - 128
Fluorene	0.054		1.58	1.48		mg/Kg	☼	90	47 - 121
Hexachlorobenzene	<0.079		1.58	1.41		mg/Kg	☼	89	54 - 114
Hexachlorobutadiene	<0.20		1.58	1.19		mg/Kg	☼	75	47 - 114
Hexachlorocyclopentadiene	<0.79	F1	1.58	<0.80	F1	mg/Kg	☼	0	10 - 110
Hexachloroethane	<0.20		1.58	0.839		mg/Kg	☼	53	44 - 110
Indeno[1,2,3-cd]pyrene	0.14		1.58	1.56		mg/Kg	☼	90	49 - 132
Isophorone	<0.20		1.58	1.24		mg/Kg	☼	78	35 - 110
2-Methylnaphthalene	<0.039		1.58	1.25		mg/Kg	☼	79	48 - 110
2-Methylphenol	<0.20		1.58	1.40		mg/Kg	☼	88	44 - 110
3 & 4 Methylphenol	<0.20		1.58	1.33		mg/Kg	☼	84	37 - 122
Naphthalene	<0.039		1.58	1.25		mg/Kg	☼	79	48 - 110
2-Nitroaniline	<0.20		1.58	1.43		mg/Kg	☼	91	42 - 122
3-Nitroaniline	<0.39		1.58	1.45		mg/Kg	☼	92	36 - 131
4-Nitroaniline	<0.39		1.58	1.41		mg/Kg	☼	89	28 - 157
Nitrobenzene	<0.039		1.58	1.29		mg/Kg	☼	82	35 - 113
2-Nitrophenol	<0.39		1.58	0.977		mg/Kg	☼	62	48 - 113
4-Nitrophenol	<0.79		3.17	2.60		mg/Kg	☼	82	10 - 157
N-Nitrosodi-n-propylamine	<0.20		1.58	1.34		mg/Kg	☼	85	24 - 123
N-Nitrosodiphenylamine	<0.20		3.17	2.78		mg/Kg	☼	88	52 - 111
2,2'-oxybis[1-chloropropane]	<0.20		1.58	1.51		mg/Kg	☼	95	30 - 115
Pentachlorophenol	<0.79		3.17	1.74		mg/Kg	☼	55	10 - 124
Phenanthrene	0.37	F1 F2	1.58	2.94	E F1	mg/Kg	☼	162	48 - 121
Phenol	<0.20		1.58	1.32		mg/Kg	☼	84	41 - 110
Pyrene	0.82	F1 F2	1.58	6.26	E F1	mg/Kg	☼	343	46 - 114
1,2,4-Trichlorobenzene	<0.20		1.58	1.23		mg/Kg	☼	77	49 - 110
2,4,5-Trichlorophenol	<0.39		1.58	1.38		mg/Kg	☼	87	41 - 120
2,4,6-Trichlorophenol	<0.39		1.58	1.35		mg/Kg	☼	86	44 - 118

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-23 MS**

**Matrix: Solid**

**Analysis Batch: 303995**

**Client Sample ID: 2618-7-B31 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303412**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	76		25 - 119
2-Fluorophenol	87		25 - 110
Nitrobenzene-d5	79		25 - 115
Phenol-d5	89		31 - 110
Terphenyl-d14	170	X	36 - 134
2,4,6-Tribromophenol	89		35 - 137

**Lab Sample ID: 500-100826-23 MSD**

**Matrix: Solid**

**Analysis Batch: 303995**

**Client Sample ID: 2618-7-B31 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303412**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Acenaphthene	0.025	J	1.59	1.27		mg/Kg	☼	78	46 - 110	2	30
Acenaphthylene	0.011	J	1.59	1.34		mg/Kg	☼	83	49 - 110	1	30
Anthracene	0.13		1.59	1.47		mg/Kg	☼	84	48 - 118	23	30
Benzo[a]anthracene	0.32	F1 F2	1.59	1.73	F2	mg/Kg	☼	89	49 - 121	35	30
Benzo[a]pyrene	0.37	F1	1.59	1.79		mg/Kg	☼	89	53 - 122	28	30
Benzo[b]fluoranthene	0.62	F1 F2	1.59	2.20	F2	mg/Kg	☼	99	54 - 122	33	30
Benzo[g,h,i]perylene	0.13		1.59	1.13		mg/Kg	☼	63	52 - 125	5	30
Benzo[k]fluoranthene	0.19	F1	1.59	2.10		mg/Kg	☼	120	44 - 137	12	30
Bis(2-chloroethoxy)methane	<0.20		1.59	1.26		mg/Kg	☼	79	42 - 110	1	30
Bis(2-chloroethyl)ether	<0.20		1.59	1.16		mg/Kg	☼	73	32 - 110	6	30
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.59	2.37	F1	mg/Kg	☼	149	47 - 133	5	30
4-Bromophenyl phenyl ether	<0.20		1.59	1.46		mg/Kg	☼	92	55 - 113	5	30
Butyl benzyl phthalate	<0.20	F1	1.59	2.57	F1	mg/Kg	☼	161	49 - 121	6	30
Carbazole	<0.20		1.59	1.56		mg/Kg	☼	98	26 - 188	2	30
4-Chloroaniline	<0.79		1.59	0.740	J	mg/Kg	☼	47	16 - 118	7	30
4-Chloro-3-methylphenol	<0.39		1.59	1.39		mg/Kg	☼	88	52 - 111	1	30
2-Chloronaphthalene	<0.20		1.59	1.32		mg/Kg	☼	83	52 - 114	3	30
2-Chlorophenol	<0.20		1.59	1.30		mg/Kg	☼	82	47 - 114	2	30
4-Chlorophenyl phenyl ether	<0.20		1.59	1.34		mg/Kg	☼	85	53 - 117	3	30
Chrysene	0.37	F1 F2	1.59	1.74	F2	mg/Kg	☼	86	45 - 118	39	30
Dibenz(a,h)anthracene	0.037	J	1.59	1.04		mg/Kg	☼	63	48 - 134	6	30
Dibenzofuran	<0.20		1.59	1.37		mg/Kg	☼	86	51 - 119	2	30
1,2-Dichlorobenzene	<0.20		1.59	1.15		mg/Kg	☼	72	48 - 110	3	30
1,3-Dichlorobenzene	<0.20		1.59	1.09		mg/Kg	☼	69	44 - 110	5	30
1,4-Dichlorobenzene	<0.20		1.59	1.11		mg/Kg	☼	70	45 - 110	5	30
3,3'-Dichlorobenzidine	<0.20		1.59	0.761		mg/Kg	☼	48	26 - 128	13	30
2,4-Dichlorophenol	<0.39		1.59	1.31		mg/Kg	☼	83	53 - 113	1	30
Diethyl phthalate	<0.20		1.59	1.38		mg/Kg	☼	87	50 - 128	2	30
2,4-Dimethylphenol	<0.39		1.59	1.34		mg/Kg	☼	84	49 - 110	2	30
Dimethyl phthalate	<0.20		1.59	1.33		mg/Kg	☼	84	56 - 113	4	30
Di-n-butyl phthalate	<0.20		1.59	1.42		mg/Kg	☼	89	50 - 128	3	30
4,6-Dinitro-2-methylphenol	<0.79	F1	3.18	<0.80	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrophenol	<0.79		3.18	1.01		mg/Kg	☼	32	10 - 110	1	30
2,4-Dinitrotoluene	<0.20		1.59	1.03		mg/Kg	☼	65	53 - 122	5	30
2,6-Dinitrotoluene	<0.20		1.59	1.20		mg/Kg	☼	75	54 - 117	1	30
Di-n-octyl phthalate	<0.20	F1	1.59	0.650	F1	mg/Kg	☼	41	46 - 138	5	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-23 MSD**

**Matrix: Solid**

**Analysis Batch: 303995**

**Client Sample ID: 2618-7-B31 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303412**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Fluoranthene	0.71	F1 F2	1.59	1.75	F2	mg/Kg	☼	66	48 - 128	62	30
Fluorene	0.054		1.59	1.40		mg/Kg	☼	85	47 - 121	5	30
Hexachlorobenzene	<0.079		1.59	1.45		mg/Kg	☼	91	54 - 114	3	30
Hexachlorobutadiene	<0.20		1.59	1.17		mg/Kg	☼	74	47 - 114	2	30
Hexachlorocyclopentadiene	<0.79	F1	1.59	<0.80	F1	mg/Kg	☼	0	10 - 110	NC	30
Hexachloroethane	<0.20		1.59	0.734		mg/Kg	☼	46	44 - 110	13	30
Indeno[1,2,3-cd]pyrene	0.14		1.59	1.35		mg/Kg	☼	76	49 - 132	14	30
Isophorone	<0.20		1.59	1.23		mg/Kg	☼	77	35 - 110	1	30
2-Methylnaphthalene	<0.039		1.59	1.26		mg/Kg	☼	80	48 - 110	1	30
2-Methylphenol	<0.20		1.59	1.38		mg/Kg	☼	87	44 - 110	2	30
3 & 4 Methylphenol	<0.20		1.59	1.35		mg/Kg	☼	85	37 - 122	1	30
Naphthalene	<0.039		1.59	1.25		mg/Kg	☼	79	48 - 110	0	30
2-Nitroaniline	<0.20		1.59	1.48		mg/Kg	☼	93	42 - 122	3	30
3-Nitroaniline	<0.39		1.59	1.63		mg/Kg	☼	103	36 - 131	12	30
4-Nitroaniline	<0.39		1.59	1.52		mg/Kg	☼	96	28 - 157	7	30
Nitrobenzene	<0.039		1.59	1.26		mg/Kg	☼	79	35 - 113	3	30
2-Nitrophenol	<0.39		1.59	0.906		mg/Kg	☼	57	48 - 113	8	30
4-Nitrophenol	<0.79		3.18	2.55		mg/Kg	☼	80	10 - 157	2	30
N-Nitrosodi-n-propylamine	<0.20		1.59	1.30		mg/Kg	☼	82	24 - 123	3	30
N-Nitrosodiphenylamine	<0.20		3.18	2.94		mg/Kg	☼	92	52 - 111	6	30
2,2'-oxybis[1-chloropropane]	<0.20		1.59	1.49		mg/Kg	☼	94	30 - 115	1	30
Pentachlorophenol	<0.79		3.18	1.98		mg/Kg	☼	62	10 - 124	13	30
Phenanthrene	0.37	F1 F2	1.59	1.71	F2	mg/Kg	☼	84	48 - 121	53	30
Phenol	<0.20		1.59	1.31		mg/Kg	☼	83	41 - 110	1	30
Pyrene	0.82	F1 F2	1.59	3.74	E F1 F2	mg/Kg	☼	183	46 - 114	50	30
1,2,4-Trichlorobenzene	<0.20		1.59	1.21		mg/Kg	☼	76	49 - 110	1	30
2,4,5-Trichlorophenol	<0.39		1.59	1.45		mg/Kg	☼	91	41 - 120	5	30
2,4,6-Trichlorophenol	<0.39		1.59	1.38		mg/Kg	☼	87	44 - 118	2	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	75		25 - 119
2-Fluorophenol	82		25 - 110
Nitrobenzene-d5	75		25 - 115
Phenol-d5	85		31 - 110
Terphenyl-d14	171	X	36 - 134
2,4,6-Tribromophenol	85		35 - 137

**Lab Sample ID: MB 500-303414/1-A**

**Matrix: Solid**

**Analysis Batch: 303469**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303414**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/08/15 15:55	09/09/15 12:55	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303414/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303469**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303414**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/08/15 15:55	09/09/15 12:55	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303414/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303469**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303414**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/08/15 15:55	09/09/15 12:55	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/08/15 15:55	09/09/15 12:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		25 - 119	09/08/15 15:55	09/09/15 12:55	1
2-Fluorophenol	91		25 - 110	09/08/15 15:55	09/09/15 12:55	1
Nitrobenzene-d5	88		25 - 115	09/08/15 15:55	09/09/15 12:55	1
Phenol-d5	83		31 - 110	09/08/15 15:55	09/09/15 12:55	1
Terphenyl-d14	100		36 - 134	09/08/15 15:55	09/09/15 12:55	1
2,4,6-Tribromophenol	78		35 - 137	09/08/15 15:55	09/09/15 12:55	1

**Lab Sample ID: LCS 500-303414/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303469**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303414**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.13		mg/Kg		85	46 - 110
Acenaphthylene	1.33	1.26		mg/Kg		95	49 - 110
Anthracene	1.33	1.23		mg/Kg		92	48 - 118
Benzo[a]anthracene	1.33	1.28		mg/Kg		96	49 - 121
Benzo[a]pyrene	1.33	1.29		mg/Kg		96	53 - 122
Benzo[b]fluoranthene	1.33	1.20		mg/Kg		90	54 - 122
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	52 - 125
Benzo[k]fluoranthene	1.33	1.22		mg/Kg		92	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	42 - 110
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		100	47 - 133
4-Bromophenyl phenyl ether	1.33	1.31		mg/Kg		98	55 - 113
Butyl benzyl phthalate	1.33	1.32		mg/Kg		99	49 - 121
Carbazole	1.33	1.35		mg/Kg		101	26 - 188
4-Chloroaniline	1.33	1.30		mg/Kg		98	16 - 118
4-Chloro-3-methylphenol	1.33	1.25		mg/Kg		93	52 - 111
2-Chloronaphthalene	1.33	1.25		mg/Kg		93	52 - 114
2-Chlorophenol	1.33	1.23		mg/Kg		92	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.27		mg/Kg		95	53 - 117
Chrysene	1.33	1.31		mg/Kg		98	45 - 118
Dibenz(a,h)anthracene	1.33	1.26		mg/Kg		94	48 - 134
Dibenzofuran	1.33	1.24		mg/Kg		93	51 - 119
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		91	48 - 110
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		87	44 - 110

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303414/2-A**

**Matrix: Solid**

**Analysis Batch: 303469**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303414**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1.33	1.19		mg/Kg		89	45 - 110
3,3'-Dichlorobenzidine	1.33	1.26		mg/Kg		95	26 - 128
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	53 - 113
Diethyl phthalate	1.33	1.17		mg/Kg		88	50 - 128
2,4-Dimethylphenol	1.33	1.24		mg/Kg		93	49 - 110
Dimethyl phthalate	1.33	1.24		mg/Kg		93	56 - 113
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	50 - 128
4,6-Dinitro-2-methylphenol	2.67	0.724		mg/Kg		27	10 - 110
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		12	10 - 110
2,4-Dinitrotoluene	1.33	1.28		mg/Kg		96	53 - 122
2,6-Dinitrotoluene	1.33	1.29		mg/Kg		97	54 - 117
Di-n-octyl phthalate	1.33	1.19		mg/Kg		89	46 - 138
Fluoranthene	1.33	1.23		mg/Kg		93	48 - 128
Fluorene	1.33	1.18		mg/Kg		89	47 - 121
Hexachlorobenzene	1.33	1.27		mg/Kg		95	54 - 114
Hexachlorobutadiene	1.33	1.19		mg/Kg		89	47 - 114
Hexachlorocyclopentadiene	1.33	0.591	J	mg/Kg		44	10 - 110
Hexachloroethane	1.33	1.16		mg/Kg		87	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.53		mg/Kg		115	49 - 132
Isophorone	1.33	1.25		mg/Kg		94	35 - 110
2-Methylnaphthalene	1.33	1.19		mg/Kg		89	48 - 110
2-Methylphenol	1.33	1.23		mg/Kg		93	44 - 110
3 & 4 Methylphenol	1.33	1.22		mg/Kg		91	37 - 122
Naphthalene	1.33	1.21		mg/Kg		90	48 - 110
2-Nitroaniline	1.33	1.29		mg/Kg		97	42 - 122
3-Nitroaniline	1.33	1.32		mg/Kg		99	36 - 131
4-Nitroaniline	1.33	1.47		mg/Kg		110	28 - 157
Nitrobenzene	1.33	1.19		mg/Kg		89	35 - 113
2-Nitrophenol	1.33	1.30		mg/Kg		97	48 - 113
4-Nitrophenol	2.67	1.85		mg/Kg		69	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.23		mg/Kg		92	24 - 123
N-Nitrosodiphenylamine	2.67	2.42		mg/Kg		91	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	1.43		mg/Kg		107	30 - 115
Pentachlorophenol	2.67	1.61		mg/Kg		60	10 - 124
Phenanthrene	1.33	1.22		mg/Kg		92	48 - 121
Phenol	1.33	1.27		mg/Kg		95	41 - 110
Pyrene	1.33	1.28		mg/Kg		96	46 - 114
1,2,4-Trichlorobenzene	1.33	1.20		mg/Kg		90	49 - 110
2,4,5-Trichlorophenol	1.33	1.19		mg/Kg		89	41 - 120
2,4,6-Trichlorophenol	1.33	1.18		mg/Kg		89	44 - 118

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	87		25 - 119
2-Fluorophenol	94		25 - 110
Nitrobenzene-d5	84		25 - 115
Phenol-d5	95		31 - 110
Terphenyl-d14	98		36 - 134
2,4,6-Tribromophenol	87		35 - 137

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Lab Sample ID: 500-100826-17 MS**  
**Matrix: Solid**  
**Analysis Batch: 303966**

**Client Sample ID: 2618-7-B25 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303414**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.039		1.54	1.19		mg/Kg	☼	77	46 - 110
Acenaphthylene	<0.039		1.54	1.28		mg/Kg	☼	83	49 - 110
Anthracene	<0.039		1.54	1.37		mg/Kg	☼	89	48 - 118
Benzo[a]anthracene	0.021	J	1.54	1.52		mg/Kg	☼	98	49 - 121
Benzo[a]pyrene	0.024	J	1.54	1.51		mg/Kg	☼	98	53 - 122
Benzo[b]fluoranthene	0.041		1.54	1.77		mg/Kg	☼	112	54 - 122
Benzo[g,h,i]perylene	<0.039		1.54	0.923		mg/Kg	☼	60	52 - 125
Benzo[k]fluoranthene	0.017	J	1.54	1.87		mg/Kg	☼	121	44 - 137
Bis(2-chloroethoxy)methane	<0.20		1.54	1.23		mg/Kg	☼	80	42 - 110
Bis(2-chloroethyl)ether	<0.20		1.54	1.15		mg/Kg	☼	75	32 - 110
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.54	2.51	F1	mg/Kg	☼	163	47 - 133
4-Bromophenyl phenyl ether	<0.20		1.54	1.60		mg/Kg	☼	104	55 - 113
Butyl benzyl phthalate	<0.20	F1	1.54	2.47	F1	mg/Kg	☼	161	49 - 121
Carbazole	<0.20		1.54	1.47		mg/Kg	☼	95	26 - 188
4-Chloroaniline	<0.79		1.54	0.892		mg/Kg	☼	58	16 - 118
4-Chloro-3-methylphenol	<0.39		1.54	1.40		mg/Kg	☼	91	52 - 111
2-Chloronaphthalene	<0.20		1.54	1.25		mg/Kg	☼	81	52 - 114
2-Chlorophenol	<0.20		1.54	1.21		mg/Kg	☼	79	47 - 114
4-Chlorophenyl phenyl ether	<0.20		1.54	1.36		mg/Kg	☼	88	53 - 117
Chrysene	0.026	J	1.54	1.51		mg/Kg	☼	96	45 - 118
Dibenz(a,h)anthracene	<0.039		1.54	1.02		mg/Kg	☼	66	48 - 134
Dibenzofuran	<0.20		1.54	1.32		mg/Kg	☼	86	51 - 119
1,2-Dichlorobenzene	<0.20		1.54	0.930		mg/Kg	☼	60	48 - 110
1,3-Dichlorobenzene	<0.20		1.54	0.863		mg/Kg	☼	56	44 - 110
1,4-Dichlorobenzene	<0.20		1.54	0.910		mg/Kg	☼	59	45 - 110
3,3'-Dichlorobenzidine	<0.20		1.54	0.525		mg/Kg	☼	34	26 - 128
2,4-Dichlorophenol	<0.39		1.54	1.33		mg/Kg	☼	87	53 - 113
Diethyl phthalate	<0.20		1.54	1.37		mg/Kg	☼	89	50 - 128
2,4-Dimethylphenol	<0.39		1.54	1.24		mg/Kg	☼	80	49 - 110
Dimethyl phthalate	<0.20		1.54	1.33		mg/Kg	☼	86	56 - 113
Di-n-butyl phthalate	<0.20		1.54	1.47		mg/Kg	☼	96	50 - 128
4,6-Dinitro-2-methylphenol	<0.79		3.08	0.508	J	mg/Kg	☼	16	10 - 110
2,4-Dinitrophenol	<0.79	F1	3.08	<0.77	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrotoluene	<0.20		1.54	1.30		mg/Kg	☼	85	53 - 122
2,6-Dinitrotoluene	<0.20		1.54	1.37		mg/Kg	☼	89	54 - 117
Di-n-octyl phthalate	<0.20	F1	1.54	3.82	E F1	mg/Kg	☼	248	46 - 138
Fluoranthene	0.040		1.54	1.18		mg/Kg	☼	74	48 - 128
Fluorene	<0.039		1.54	1.30		mg/Kg	☼	84	47 - 121
Hexachlorobenzene	<0.079		1.54	1.48		mg/Kg	☼	96	54 - 114
Hexachlorobutadiene	<0.20		1.54	0.940		mg/Kg	☼	61	47 - 114
Hexachlorocyclopentadiene	<0.79	F1	1.54	<0.77	F1	mg/Kg	☼	0	10 - 110
Hexachloroethane	<0.20	F1	1.54	0.638	F1	mg/Kg	☼	41	44 - 110
Indeno[1,2,3-cd]pyrene	0.011	J	1.54	1.20		mg/Kg	☼	78	49 - 132
Isophorone	<0.20		1.54	1.26		mg/Kg	☼	82	35 - 110
2-Methylnaphthalene	<0.039		1.54	1.11		mg/Kg	☼	72	48 - 110
2-Methylphenol	<0.20		1.54	1.25		mg/Kg	☼	81	44 - 110
3 & 4 Methylphenol	<0.20		1.54	1.23		mg/Kg	☼	80	37 - 122
Naphthalene	<0.039		1.54	1.05		mg/Kg	☼	68	48 - 110
2-Nitroaniline	<0.20		1.54	1.39		mg/Kg	☼	91	42 - 122
3-Nitroaniline	<0.39		1.54	1.15		mg/Kg	☼	75	36 - 131

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-17 MS**

**Matrix: Solid**

**Analysis Batch: 303966**

**Client Sample ID: 2618-7-B25 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303414**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Nitroaniline	<0.39		1.54	1.33		mg/Kg	☼	86	28 - 157
Nitrobenzene	<0.039		1.54	1.10		mg/Kg	☼	71	35 - 113
2-Nitrophenol	<0.39		1.54	1.24		mg/Kg	☼	80	48 - 113
4-Nitrophenol	<0.79		3.08	2.25		mg/Kg	☼	73	10 - 157
N-Nitrosodi-n-propylamine	<0.20		1.54	1.17		mg/Kg	☼	76	24 - 123
N-Nitrosodiphenylamine	<0.20		3.08	2.97		mg/Kg	☼	97	52 - 111
2,2'-oxybis[1-chloropropane]	<0.20		1.54	1.19		mg/Kg	☼	77	30 - 115
Pentachlorophenol	<0.79		3.08	0.992		mg/Kg	☼	32	10 - 124
Phenanthrene	0.017	J	1.54	1.46		mg/Kg	☼	94	48 - 121
Phenol	<0.20		1.54	1.32		mg/Kg	☼	86	41 - 110
Pyrene	0.057	F1	1.54	2.37	F1	mg/Kg	☼	150	46 - 114
1,2,4-Trichlorobenzene	<0.20		1.54	1.00		mg/Kg	☼	65	49 - 110
2,4,5-Trichlorophenol	<0.39		1.54	1.39		mg/Kg	☼	90	41 - 120
2,4,6-Trichlorophenol	<0.39		1.54	1.45		mg/Kg	☼	94	44 - 118

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	66		25 - 119
2-Fluorophenol	73		25 - 110
Nitrobenzene-d5	58		25 - 115
Phenol-d5	82		31 - 110
Terphenyl-d14	166	X	36 - 134
2,4,6-Tribromophenol	85		35 - 137

**Lab Sample ID: 500-100826-17 MSD**

**Matrix: Solid**

**Analysis Batch: 303966**

**Client Sample ID: 2618-7-B25 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303414**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	<0.039		1.57	1.20		mg/Kg	☼	76	46 - 110	0	30
Acenaphthylene	<0.039		1.57	1.29		mg/Kg	☼	82	49 - 110	0	30
Anthracene	<0.039		1.57	1.40		mg/Kg	☼	89	48 - 118	2	30
Benzo[a]anthracene	0.021	J	1.57	1.57		mg/Kg	☼	99	49 - 121	3	30
Benzo[a]pyrene	0.024	J	1.57	1.52		mg/Kg	☼	97	53 - 122	1	30
Benzo[b]fluoranthene	0.041		1.57	1.81		mg/Kg	☼	113	54 - 122	2	30
Benzo[g,h,i]perylene	<0.039		1.57	0.990		mg/Kg	☼	63	52 - 125	7	30
Benzo[k]fluoranthene	0.017	J	1.57	1.80		mg/Kg	☼	114	44 - 137	4	30
Bis(2-chloroethoxy)methane	<0.20		1.57	1.26		mg/Kg	☼	80	42 - 110	2	30
Bis(2-chloroethyl)ether	<0.20		1.57	1.18		mg/Kg	☼	75	32 - 110	3	30
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.57	2.56	F1	mg/Kg	☼	163	47 - 133	2	30
4-Bromophenyl phenyl ether	<0.20		1.57	1.63		mg/Kg	☼	104	55 - 113	2	30
Butyl benzyl phthalate	<0.20	F1	1.57	2.55	F1	mg/Kg	☼	163	49 - 121	3	30
Carbazole	<0.20		1.57	1.44		mg/Kg	☼	92	26 - 188	2	30
4-Chloroaniline	<0.79		1.57	0.915		mg/Kg	☼	58	16 - 118	3	30
4-Chloro-3-methylphenol	<0.39		1.57	1.43		mg/Kg	☼	91	52 - 111	2	30
2-Chloronaphthalene	<0.20		1.57	1.29		mg/Kg	☼	82	52 - 114	3	30
2-Chlorophenol	<0.20		1.57	1.24		mg/Kg	☼	79	47 - 114	2	30
4-Chlorophenyl phenyl ether	<0.20		1.57	1.36		mg/Kg	☼	87	53 - 117	1	30
Chrysene	0.026	J	1.57	1.54		mg/Kg	☼	97	45 - 118	2	30

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-17 MSD**

**Matrix: Solid**

**Analysis Batch: 303966**

**Client Sample ID: 2618-7-B25 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303414**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Dibenz(a,h)anthracene	<0.039		1.57	1.03		mg/Kg	☼	66	48 - 134	1	30
Dibenzofuran	<0.20		1.57	1.33		mg/Kg	☼	85	51 - 119	1	30
1,2-Dichlorobenzene	<0.20		1.57	0.956		mg/Kg	☼	61	48 - 110	3	30
1,3-Dichlorobenzene	<0.20		1.57	0.840		mg/Kg	☼	54	44 - 110	3	30
1,4-Dichlorobenzene	<0.20		1.57	0.917		mg/Kg	☼	58	45 - 110	1	30
3,3'-Dichlorobenzidine	<0.20		1.57	0.445		mg/Kg	☼	28	26 - 128	16	30
2,4-Dichlorophenol	<0.39		1.57	1.31		mg/Kg	☼	84	53 - 113	1	30
Diethyl phthalate	<0.20		1.57	1.36		mg/Kg	☼	87	50 - 128	1	30
2,4-Dimethylphenol	<0.39		1.57	1.20		mg/Kg	☼	77	49 - 110	3	30
Dimethyl phthalate	<0.20		1.57	1.35		mg/Kg	☼	86	56 - 113	2	30
Di-n-butyl phthalate	<0.20		1.57	1.49		mg/Kg	☼	95	50 - 128	1	30
4,6-Dinitro-2-methylphenol	<0.79		3.14	0.420	J	mg/Kg	☼	13	10 - 110	19	30
2,4-Dinitrophenol	<0.79	F1	3.14	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrotoluene	<0.20		1.57	1.27		mg/Kg	☼	81	53 - 122	2	30
2,6-Dinitrotoluene	<0.20		1.57	1.36		mg/Kg	☼	87	54 - 117	1	30
Di-n-octyl phthalate	<0.20	F1	1.57	3.58	E F1	mg/Kg	☼	228	46 - 138	6	30
Fluoranthene	0.040		1.57	1.22		mg/Kg	☼	76	48 - 128	4	30
Fluorene	<0.039		1.57	1.30		mg/Kg	☼	83	47 - 121	0	30
Hexachlorobenzene	<0.079		1.57	1.50		mg/Kg	☼	96	54 - 114	1	30
Hexachlorobutadiene	<0.20		1.57	0.959		mg/Kg	☼	61	47 - 114	2	30
Hexachlorocyclopentadiene	<0.79	F1	1.57	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
Hexachloroethane	<0.20	F1	1.57	0.623	F1	mg/Kg	☼	40	44 - 110	2	30
Indeno[1,2,3-cd]pyrene	0.011	J	1.57	1.27		mg/Kg	☼	81	49 - 132	5	30
Isophorone	<0.20		1.57	1.25		mg/Kg	☼	80	35 - 110	0	30
2-Methylnaphthalene	<0.039		1.57	1.16		mg/Kg	☼	74	48 - 110	5	30
2-Methylphenol	<0.20		1.57	1.20		mg/Kg	☼	77	44 - 110	4	30
3 & 4 Methylphenol	<0.20		1.57	1.18		mg/Kg	☼	75	37 - 122	4	30
Naphthalene	<0.039		1.57	1.10		mg/Kg	☼	70	48 - 110	5	30
2-Nitroaniline	<0.20		1.57	1.44		mg/Kg	☼	92	42 - 122	3	30
3-Nitroaniline	<0.39		1.57	1.22		mg/Kg	☼	78	36 - 131	5	30
4-Nitroaniline	<0.39		1.57	1.32		mg/Kg	☼	84	28 - 157	0	30
Nitrobenzene	<0.039		1.57	1.15		mg/Kg	☼	73	35 - 113	4	30
2-Nitrophenol	<0.39		1.57	1.25		mg/Kg	☼	80	48 - 113	1	30
4-Nitrophenol	<0.79		3.14	2.09		mg/Kg	☼	67	10 - 157	7	30
N-Nitrosodi-n-propylamine	<0.20		1.57	1.15		mg/Kg	☼	73	24 - 123	1	30
N-Nitrosodiphenylamine	<0.20		3.14	3.02		mg/Kg	☼	96	52 - 111	2	30
2,2'-oxybis[1-chloropropane]	<0.20		1.57	1.18		mg/Kg	☼	76	30 - 115	0	30
Pentachlorophenol	<0.79		3.14	1.70	F2	mg/Kg	☼	54	10 - 124	53	30
Phenanthrene	0.017	J	1.57	1.50		mg/Kg	☼	95	48 - 121	3	30
Phenol	<0.20		1.57	1.31		mg/Kg	☼	83	41 - 110	1	30
Pyrene	0.057	F1	1.57	2.67	F1	mg/Kg	☼	166	46 - 114	12	30
1,2,4-Trichlorobenzene	<0.20		1.57	1.06		mg/Kg	☼	68	49 - 110	6	30
2,4,5-Trichlorophenol	<0.39		1.57	1.42		mg/Kg	☼	90	41 - 120	2	30
2,4,6-Trichlorophenol	<0.39		1.57	1.47		mg/Kg	☼	94	44 - 118	1	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	70		25 - 119
2-Fluorophenol	76		25 - 110

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100826-17 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303966**

**Client Sample ID: 2618-7-B25 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303414**

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	63		25 - 115
Phenol-d5	81		31 - 110
Terphenyl-d14	174	X	36 - 134
2,4,6-Tribromophenol	87		35 - 137

**Lab Sample ID: MB 500-303467/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/09/15 07:17	09/09/15 20:43	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303467/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/09/15 07:17	09/09/15 20:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	92		25 - 119	09/09/15 07:17	09/09/15 20:43	1
2-Fluorophenol	87		25 - 110	09/09/15 07:17	09/09/15 20:43	1
Nitrobenzene-d5	97		25 - 115	09/09/15 07:17	09/09/15 20:43	1
Phenol-d5	85		31 - 110	09/09/15 07:17	09/09/15 20:43	1
Terphenyl-d14	98		36 - 134	09/09/15 07:17	09/09/15 20:43	1
2,4,6-Tribromophenol	98		35 - 137	09/09/15 07:17	09/09/15 20:43	1

**Lab Sample ID: LCS 500-303467/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	1.33	1.15		mg/Kg		86	46 - 110
Acenaphthylene	1.33	1.17		mg/Kg		88	49 - 110
Anthracene	1.33	1.15		mg/Kg		87	48 - 118
Benzo[a]anthracene	1.33	1.25		mg/Kg		94	49 - 121
Benzo[a]pyrene	1.33	1.29		mg/Kg		97	53 - 122
Benzo[b]fluoranthene	1.33	1.31		mg/Kg		98	54 - 122
Benzo[g,h,i]perylene	1.33	1.35		mg/Kg		101	52 - 125
Benzo[k]fluoranthene	1.33	1.13		mg/Kg		85	44 - 137

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303467/2-A**

**Matrix: Solid**

**Analysis Batch: 303573**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Bis(2-chloroethoxy)methane	1.33	1.18		mg/Kg		89	42 - 110
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.25		mg/Kg		94	47 - 133
4-Bromophenyl phenyl ether	1.33	1.21		mg/Kg		91	55 - 113
Butyl benzyl phthalate	1.33	1.29		mg/Kg		96	49 - 121
Carbazole	1.33	1.39		mg/Kg		104	26 - 188
4-Chloroaniline	1.33	1.08		mg/Kg		81	16 - 118
4-Chloro-3-methylphenol	1.33	1.25		mg/Kg		94	52 - 111
2-Chloronaphthalene	1.33	1.15		mg/Kg		86	52 - 114
2-Chlorophenol	1.33	1.21		mg/Kg		91	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.17		mg/Kg		87	53 - 117
Chrysene	1.33	1.22		mg/Kg		91	45 - 118
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	48 - 134
Dibenzofuran	1.33	1.13		mg/Kg		84	51 - 119
1,2-Dichlorobenzene	1.33	1.10		mg/Kg		82	48 - 110
1,3-Dichlorobenzene	1.33	1.11		mg/Kg		83	44 - 110
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		83	45 - 110
3,3'-Dichlorobenzidine	1.33	1.21		mg/Kg		90	26 - 128
2,4-Dichlorophenol	1.33	1.37		mg/Kg		102	53 - 113
Diethyl phthalate	1.33	1.21		mg/Kg		90	50 - 128
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	49 - 110
Dimethyl phthalate	1.33	1.19		mg/Kg		89	56 - 113
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	50 - 128
4,6-Dinitro-2-methylphenol	2.67	2.24		mg/Kg		84	10 - 110
2,4-Dinitrophenol	2.67	0.650	J	mg/Kg		24	10 - 110
2,4-Dinitrotoluene	1.33	1.21		mg/Kg		91	53 - 122
2,6-Dinitrotoluene	1.33	1.22		mg/Kg		92	54 - 117
Di-n-octyl phthalate	1.33	1.28		mg/Kg		96	46 - 138
Fluoranthene	1.33	1.22		mg/Kg		92	48 - 128
Fluorene	1.33	1.13		mg/Kg		85	47 - 121
Hexachlorobenzene	1.33	1.27		mg/Kg		95	54 - 114
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	47 - 114
Hexachlorocyclopentadiene	1.33	0.727		mg/Kg		55	10 - 110
Hexachloroethane	1.33	1.15		mg/Kg		87	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	49 - 132
Isophorone	1.33	1.19		mg/Kg		89	35 - 110
2-Methylnaphthalene	1.33	1.08		mg/Kg		81	48 - 110
2-Methylphenol	1.33	1.15		mg/Kg		86	44 - 110
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	37 - 122
Naphthalene	1.33	1.17		mg/Kg		88	48 - 110
2-Nitroaniline	1.33	1.30		mg/Kg		98	42 - 122
3-Nitroaniline	1.33	1.03		mg/Kg		77	36 - 131
4-Nitroaniline	1.33	1.53		mg/Kg		115	28 - 157
Nitrobenzene	1.33	1.31		mg/Kg		98	35 - 113
2-Nitrophenol	1.33	1.30		mg/Kg		98	48 - 113
4-Nitrophenol	2.67	3.06		mg/Kg		115	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.19		mg/Kg		89	24 - 123
N-Nitrosodiphenylamine	2.67	2.33		mg/Kg		87	52 - 111

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303467/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,2'-oxybis[1-chloropropane]	1.33	0.983		mg/Kg		74	30 - 115
Pentachlorophenol	2.67	2.55		mg/Kg		96	10 - 124
Phenanthrene	1.33	1.18		mg/Kg		88	48 - 121
Phenol	1.33	1.16		mg/Kg		87	41 - 110
Pyrene	1.33	1.18		mg/Kg		88	46 - 114
1,2,4-Trichlorobenzene	1.33	1.25		mg/Kg		94	49 - 110
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	41 - 120
2,4,6-Trichlorophenol	1.33	1.19		mg/Kg		89	44 - 118

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	84		25 - 119
2-Fluorophenol	85		25 - 110
Nitrobenzene-d5	97		25 - 115
Phenol-d5	84		31 - 110
Terphenyl-d14	95		36 - 134
2,4,6-Tribromophenol	96		35 - 137

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 500-303340/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Barium	<1.0		1.0	0.18	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Chromium	<1.0		1.0	0.17	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Cobalt	<0.50		0.50	0.11	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Copper	<1.0		1.0	0.22	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Iron	16.8	J	20	7.7	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Lead	0.379	J	0.50	0.25	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Magnesium	13.8		10	4.1	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Calcium	27.0		20	6.4	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Manganese	0.373	J	1.0	0.20	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Nickel	<1.0		1.0	0.27	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Silver	<0.50		0.50	0.12	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Zinc	1.08	J	2.0	0.63	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Potassium	<50		50	8.2	mg/Kg		09/08/15 12:00	09/08/15 23:55	1
Sodium	<100		100	13	mg/Kg		09/08/15 12:00	09/08/15 23:55	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 500-303340/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303663**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.20		0.20	0.058	mg/Kg		09/08/15 12:00	09/09/15 21:35	1

**Lab Sample ID: LCS 500-303340/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.4		mg/Kg		89	80 - 120
Arsenic	10.0	9.26		mg/Kg		93	80 - 120
Barium	200	186		mg/Kg		93	80 - 120
Beryllium	5.00	4.70		mg/Kg		94	80 - 120
Chromium	20.0	18.9		mg/Kg		95	80 - 120
Cobalt	50.0	46.2		mg/Kg		92	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.57		mg/Kg		96	80 - 120
Magnesium	1000	931		mg/Kg		93	80 - 120
Calcium	1000	949		mg/Kg		95	80 - 120
Manganese	50.0	47.7		mg/Kg		95	80 - 120
Nickel	50.0	46.8		mg/Kg		94	80 - 120
Selenium	10.0	8.62		mg/Kg		86	80 - 120
Silver	5.00	4.69		mg/Kg		94	80 - 120
Thallium	5.00	4.54		mg/Kg		91	80 - 120
Vanadium	50.0	47.4		mg/Kg		95	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120
Potassium	1000	901		mg/Kg		90	80 - 120
Sodium	1000	907		mg/Kg		91	80 - 120

**Lab Sample ID: LCS 500-303340/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303663**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	5.00	4.73		mg/Kg		95	80 - 120

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.83	J F1	29.1	8.03	F1	mg/Kg	☼	25	75 - 125
Arsenic	15	F1	5.81	19.2	F1	mg/Kg	☼	72	75 - 125
Barium	88		116	204		mg/Kg	☼	100	75 - 125
Beryllium	0.63		2.91	3.28		mg/Kg	☼	91	75 - 125
Chromium	14		11.6	28.0		mg/Kg	☼	119	75 - 125
Cobalt	7.2		29.1	29.9		mg/Kg	☼	78	75 - 125
Copper	22		14.5	35.1		mg/Kg	☼	89	75 - 125
Iron	27000	B	58.1	25200	4	mg/Kg	☼	-2272	75 - 125
Lead	82	B	5.81	138	4	mg/Kg	☼	957	75 - 125

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100826-1 MS**

**Matrix: Solid**

**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303340**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Magnesium	27000	B F2	581	22700	4	mg/Kg	☼	-709	75 - 125
Calcium	42000	B F2	581	35200	4	mg/Kg	☼	-1179	75 - 125
Manganese	590	B	29.1	682	4	mg/Kg	☼	323	75 - 125
Nickel	17		29.1	40.1		mg/Kg	☼	79	75 - 125
Selenium	0.99		5.81	5.64		mg/Kg	☼	80	75 - 125
Silver	0.13	J	2.91	2.81		mg/Kg	☼	92	75 - 125
Thallium	0.76		2.91	4.10		mg/Kg	☼	115	75 - 125
Vanadium	26		29.1	56.3		mg/Kg	☼	105	75 - 125
Zinc	76	B	29.1	100		mg/Kg	☼	85	75 - 125
Potassium	1500	F1	581	2900	F1	mg/Kg	☼	249	75 - 125
Sodium	1700		581	2260		mg/Kg	☼	90	75 - 125

**Lab Sample ID: 500-100826-1 MS**

**Matrix: Solid**

**Analysis Batch: 303663**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303340**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Cadmium	0.46		2.91	2.93		mg/Kg	☼	85	75 - 125

**Lab Sample ID: 500-100826-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303340**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Antimony	0.83	J F1	30.5	8.43	F1	mg/Kg	☼	25	75 - 125	5	20
Arsenic	15	F1	6.11	21.2		mg/Kg	☼	101	75 - 125	10	20
Barium	88		122	203		mg/Kg	☼	94	75 - 125	1	20
Beryllium	0.63		3.05	3.39		mg/Kg	☼	90	75 - 125	3	20
Chromium	14		12.2	28.9		mg/Kg	☼	120	75 - 125	3	20
Cobalt	7.2		30.5	31.7		mg/Kg	☼	80	75 - 125	6	20
Copper	22		15.3	37.2		mg/Kg	☼	98	75 - 125	6	20
Iron	27000	B	61.1	29100	4	mg/Kg	☼	4205	75 - 125	14	20
Lead	82	B	6.11	114	4	mg/Kg	☼	517	75 - 125	19	20
Magnesium	27000	B F2	611	30000	4 F2	mg/Kg	☼	523	75 - 125	28	20
Calcium	42000	B F2	611	46700	4 F2	mg/Kg	☼	764	75 - 125	28	20
Manganese	590	B	30.5	726	4	mg/Kg	☼	451	75 - 125	6	20
Nickel	17		30.5	43.1		mg/Kg	☼	85	75 - 125	7	20
Selenium	0.99		6.11	6.12		mg/Kg	☼	84	75 - 125	8	20
Silver	0.13	J	3.05	3.00		mg/Kg	☼	94	75 - 125	6	20
Thallium	0.76		3.05	4.01		mg/Kg	☼	106	75 - 125	2	20
Vanadium	26		30.5	57.8		mg/Kg	☼	105	75 - 125	3	20
Zinc	76	B	30.5	101		mg/Kg	☼	83	75 - 125	1	20
Potassium	1500	F1	611	2920	F1	mg/Kg	☼	240	75 - 125	1	20
Sodium	1700		611	2460		mg/Kg	☼	119	75 - 125	8	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100826-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303663**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Cadmium	0.46		3.05	3.14		mg/Kg	☼	88	75 - 125	7	20

**Lab Sample ID: 500-100826-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.83	J F1	0.582	J F5	mg/Kg	☼	35	20
Arsenic	15	F1	11.8	F3	mg/Kg	☼	24	20
Barium	88		74.6		mg/Kg	☼	17	20
Beryllium	0.63		0.628		mg/Kg	☼	0.2	20
Chromium	14		16.4		mg/Kg	☼	14	20
Cobalt	7.2		7.56		mg/Kg	☼	5	20
Copper	22		27.7	F3	mg/Kg	☼	22	20
Iron	27000	B	24700		mg/Kg	☼	7	20
Lead	82	B	399	F3	mg/Kg	☼	132	20
Magnesium	27000	B F2	20700	F3	mg/Kg	☼	26	20
Calcium	42000	B F2	32700	F3	mg/Kg	☼	25	20
Manganese	590	B	664		mg/Kg	☼	12	20
Nickel	17		17.5		mg/Kg	☼	2	20
Selenium	0.99		1.22	F5	mg/Kg	☼	21	20
Silver	0.13	J	0.167	J F5	mg/Kg	☼	25	20
Thallium	0.76		1.07	F5	mg/Kg	☼	34	20
Vanadium	26		23.0		mg/Kg	☼	11	20
Zinc	76	B	116	F3	mg/Kg	☼	42	20
Potassium	1500	F1	1380		mg/Kg	☼	5	20
Sodium	1700		1650		mg/Kg	☼	5	20

**Lab Sample ID: 500-100826-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303663**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303340**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.46		0.992	F3	mg/Kg	☼	73	20

**Lab Sample ID: MB 500-303441/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303669**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303441**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Barium	<1.0		1.0	0.18	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Cadmium	<0.20		0.20	0.058	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Chromium	<1.0		1.0	0.17	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Cobalt	<0.50		0.50	0.11	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Copper	<1.0		1.0	0.22	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Iron	<20		20	7.7	mg/Kg		09/08/15 18:20	09/09/15 13:15	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 500-303441/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303669**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303441**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	0.25	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Magnesium	<10		10	4.1	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Calcium	<20		20	6.4	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Manganese	<1.0		1.0	0.20	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Nickel	<1.0		1.0	0.27	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Silver	<0.50		0.50	0.12	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Zinc	<2.0		2.0	0.63	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Potassium	<50		50	8.2	mg/Kg		09/08/15 18:20	09/09/15 13:15	1
Sodium	17.1	J	100	13	mg/Kg		09/08/15 18:20	09/09/15 13:15	1

**Lab Sample ID: LCS 500-303441/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303669**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303441**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	49.8		mg/Kg		100	80 - 120
Arsenic	10.0	10.1		mg/Kg		101	80 - 120
Barium	200	208		mg/Kg		104	80 - 120
Beryllium	5.00	5.16		mg/Kg		103	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Chromium	20.0	21.0		mg/Kg		105	80 - 120
Cobalt	50.0	51.3		mg/Kg		103	80 - 120
Copper	25.0	26.5		mg/Kg		106	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Magnesium	1000	1030		mg/Kg		103	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Manganese	50.0	53.4		mg/Kg		107	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	10.0	9.56		mg/Kg		96	80 - 120
Silver	5.00	5.18		mg/Kg		104	80 - 120
Thallium	5.00	5.40		mg/Kg		108	80 - 120
Vanadium	50.0	53.0		mg/Kg		106	80 - 120
Zinc	50.0	50.9		mg/Kg		102	80 - 120
Potassium	1000	969		mg/Kg		97	80 - 120
Sodium	1000	1030		mg/Kg		103	80 - 120

**Lab Sample ID: LCS 500-303717/3-A**  
**Matrix: Solid**  
**Analysis Batch: 303870**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303717**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0986		mg/L		99	80 - 120
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-303717/3-A**  
**Matrix: Solid**  
**Analysis Batch: 303870**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303717**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
								%Rec.
Chromium	0.200	0.199		mg/L		100	80 - 120	
Cobalt	0.500	0.517		mg/L		103	80 - 120	
Copper	0.250	0.254		mg/L		102	80 - 120	
Iron	1.00	0.950		mg/L		95	80 - 120	
Lead	0.100	0.101		mg/L		101	80 - 120	
Magnesium	10.0	10.0		mg/L		100	80 - 120	
Calcium	10.0	10.3		mg/L		103	80 - 120	
Manganese	0.500	0.500		mg/L		100	80 - 120	
Nickel	0.500	0.507		mg/L		101	80 - 120	
Selenium	0.100	0.0972		mg/L		97	80 - 120	
Silver	0.0500	0.0398		mg/L		80	80 - 120	
Vanadium	0.500	0.512		mg/L		102	80 - 120	
Zinc	0.500	0.501		mg/L		100	80 - 120	
Potassium	10.0	10.1		mg/L		101	80 - 120	

**Lab Sample ID: LCS 500-303731/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303731**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
								%Rec.
Arsenic	0.100	0.105		mg/L		105	80 - 120	
Barium	0.500	0.576		mg/L		115	80 - 120	
Beryllium	0.0500	0.0569		mg/L		114	80 - 120	
Cadmium	0.0500	0.0518		mg/L		104	80 - 120	
Chromium	0.200	0.214		mg/L		107	80 - 120	
Cobalt	0.500	0.545		mg/L		109	80 - 120	
Copper	0.250	0.273		mg/L		109	80 - 120	
Iron	1.00	1.18		mg/L		118	80 - 120	
Lead	0.100	0.108		mg/L		108	80 - 120	
Magnesium	10.0	10.9		mg/L		109	80 - 120	
Calcium	10.0	11.3		mg/L		113	80 - 120	
Manganese	0.500	0.573		mg/L		115	80 - 120	
Nickel	0.500	0.534		mg/L		107	80 - 120	
Selenium	0.100	0.0981		mg/L		98	80 - 120	
Vanadium	0.500	0.549		mg/L		110	80 - 120	
Zinc	0.500	0.533		mg/L		107	80 - 120	
Potassium	10.0	10.8		mg/L		108	80 - 120	

**Lab Sample ID: MB 500-303778/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304074**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303778**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Barium	<1.0		1.0	0.18	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Cadmium	<0.20		0.20	0.058	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Chromium	<1.0		1.0	0.17	mg/Kg		09/10/15 18:43	09/12/15 05:27	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 500-303778/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304074**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303778**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.50		0.50	0.11	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Copper	<1.0		1.0	0.22	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Iron	<20		20	7.7	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Lead	<0.50		0.50	0.25	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Magnesium	<10		10	4.1	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Calcium	<20		20	6.4	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Manganese	<1.0		1.0	0.20	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Nickel	<1.0		1.0	0.27	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Silver	<0.50		0.50	0.12	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Zinc	<2.0		2.0	0.63	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Potassium	<50		50	8.2	mg/Kg		09/10/15 18:43	09/12/15 05:27	1
Sodium	<100		100	13	mg/Kg		09/10/15 18:43	09/12/15 05:27	1

**Lab Sample ID: LCS 500-303778/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304074**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303778**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.6		mg/Kg		93	80 - 120
Arsenic	10.0	9.41		mg/Kg		94	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.80		mg/Kg		96	80 - 120
Cadmium	5.00	4.77		mg/Kg		95	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	47.9		mg/Kg		96	80 - 120
Copper	25.0	23.9		mg/Kg		96	80 - 120
Iron	100	98.5		mg/Kg		98	80 - 120
Lead	10.0	9.57		mg/Kg		96	80 - 120
Magnesium	1000	962		mg/Kg		96	80 - 120
Calcium	1000	961		mg/Kg		96	80 - 120
Manganese	50.0	48.1		mg/Kg		96	80 - 120
Nickel	50.0	48.5		mg/Kg		97	80 - 120
Selenium	10.0	8.52		mg/Kg		85	80 - 120
Silver	5.00	4.72		mg/Kg		94	80 - 120
Thallium	5.00	4.71		mg/Kg		94	80 - 120
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	47.0		mg/Kg		94	80 - 120
Potassium	1000	915		mg/Kg		91	80 - 120
Sodium	1000	923		mg/Kg		92	80 - 120

**Lab Sample ID: LCS 500-303788/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303788**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0996		mg/L		100	80 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-303788/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303788**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.488	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.506		mg/L		101	80 - 120
Copper	0.250	0.248		mg/L		99	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Magnesium	10.0	10.0		mg/L		100	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Manganese	0.500	0.521		mg/L		104	80 - 120
Nickel	0.500	0.488		mg/L		98	80 - 120
Selenium	0.100	0.0907		mg/L		91	80 - 120
Silver	0.0500	0.0493		mg/L		99	80 - 120
Vanadium	0.500	0.513		mg/L		103	80 - 120
Zinc	0.500	0.510		mg/L		102	80 - 120
Potassium	10.0	8.94		mg/L		89	80 - 120

**Lab Sample ID: LCS 500-303789/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303789**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.105		mg/L		105	80 - 120
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Magnesium	10.0	10.0		mg/L		100	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.500	0.525		mg/L		105	80 - 120
Nickel	0.500	0.502		mg/L		100	80 - 120
Selenium	0.100	0.0942		mg/L		94	80 - 120
Silver	0.0500	0.0507		mg/L		101	80 - 120
Vanadium	0.500	0.521		mg/L		104	80 - 120
Zinc	0.500	0.505		mg/L		101	80 - 120
Potassium	10.0	9.54		mg/L		95	80 - 120

**Lab Sample ID: LCS 500-304235/4-A**  
**Matrix: Solid**  
**Analysis Batch: 304372**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304235**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0500	0.0509		mg/L		102	80 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 500-303591/1-B**  
**Matrix: Solid**  
**Analysis Batch: 303870**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303717**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Barium	<0.50		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 18:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Copper	0.0131	J	0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 18:29	1
Magnesium	<2.5		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 18:29	1
Calcium	<6.0		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 18:29	1
Manganese	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 18:29	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:29	1
Zinc	0.131	J	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 18:29	1
Potassium	<2.5		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 18:29	1

**Lab Sample ID: LB2 500-303600/1-B**  
**Matrix: Solid**  
**Analysis Batch: 303870**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303717**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Barium	<0.50		0.50	0.050	mg/L		09/10/15 10:00	09/10/15 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 10:00	09/10/15 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 10:00	09/10/15 18:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 10:00	09/10/15 18:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 10:00	09/10/15 18:34	1
Magnesium	<2.5		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 18:34	1
Calcium	<6.0		6.0	0.50	mg/L		09/10/15 10:00	09/10/15 18:34	1
Manganese	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 10:00	09/10/15 18:34	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 10:00	09/10/15 18:34	1
Zinc	0.0312	J	0.50	0.020	mg/L		09/10/15 10:00	09/10/15 18:34	1
Potassium	<2.5		2.5	0.50	mg/L		09/10/15 10:00	09/10/15 18:34	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100826-1 MS**

**Matrix: Solid**

**Analysis Batch: 303870**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: TCLP**

**Prep Batch: 303717**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.050		0.100	0.127		mg/L		127	50 - 150
Barium	0.47	J	0.500	1.00		mg/L		106	50 - 150
Beryllium	<0.0040		0.0500	0.0514		mg/L		103	50 - 150
Cadmium	<0.0050		0.0500	0.0569		mg/L		114	50 - 150
Chromium	<0.025		0.200	0.197		mg/L		99	50 - 150
Cobalt	<0.025		0.500	0.549		mg/L		110	50 - 150
Copper	<0.025		0.250	0.304		mg/L		122	50 - 150
Iron	<0.20		1.00	0.986		mg/L		99	50 - 150
Lead	<0.0075		0.100	0.107		mg/L		107	50 - 150
Magnesium	150		10.0	160	4	mg/L		148	50 - 150
Calcium	270		10.0	285	4	mg/L		158	50 - 150
Manganese	0.10		0.500	0.595		mg/L		99	50 - 150
Nickel	<0.025		0.500	0.532		mg/L		106	50 - 150
Selenium	<0.050		0.100	0.128		mg/L		128	50 - 150
Silver	<0.025		0.0500	0.0484		mg/L		97	50 - 150
Vanadium	<0.025		0.500	0.523		mg/L		105	50 - 150
Zinc	0.034	J B	0.500	0.570		mg/L		107	50 - 150
Potassium	0.73	J	10.0	11.9		mg/L		112	50 - 150

**Lab Sample ID: 500-100826-1 DU**

**Matrix: Solid**

**Analysis Batch: 303870**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: TCLP**

**Prep Batch: 303717**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.47	J	0.470	J	mg/L		0.2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Copper	<0.025		<0.025		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	150		145		mg/L		0	20
Calcium	270		269		mg/L		0.05	20
Manganese	0.10		0.102		mg/L		0.6	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.034	J B	0.0322	J	mg/L		6	20
Potassium	0.73	J	0.753	J	mg/L		3	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 500-303601/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 15:20	1
Barium	<0.50		0.50	0.050	mg/L		09/10/15 13:00	09/11/15 15:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 15:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 15:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:20	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:20	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:20	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 15:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 15:20	1
Magnesium	<2.5		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:20	1
Calcium	<6.0		6.0	0.50	mg/L		09/10/15 13:00	09/11/15 15:20	1
Manganese	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:20	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 15:20	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:20	1
Zinc	0.369	J	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 15:20	1
Potassium	<2.5		2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:20	1

**Lab Sample ID: LB2 500-303602/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 13:00	09/11/15 15:25	1
Barium	0.125	J	0.50	0.050	mg/L		09/10/15 13:00	09/11/15 15:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 13:00	09/11/15 15:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 13:00	09/11/15 15:25	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:25	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:25	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:25	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 13:00	09/11/15 15:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 13:00	09/11/15 15:25	1
Magnesium	1.69	J	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:25	1
Calcium	5.04	J	6.0	0.50	mg/L		09/10/15 13:00	09/11/15 15:25	1
Manganese	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:25	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 13:00	09/11/15 15:25	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 13:00	09/11/15 15:25	1
Zinc	0.101	J	0.50	0.020	mg/L		09/10/15 13:00	09/11/15 15:25	1
Potassium	0.944	J	2.5	0.50	mg/L		09/10/15 13:00	09/11/15 15:25	1

**Lab Sample ID: 500-100826-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.016	J	0.100	0.134		mg/L		117	50 - 150
Barium	0.88		0.500	1.35		mg/L		94	50 - 150

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100826-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Beryllium	<0.0040		0.0500	0.0579		mg/L		116	50 - 150
Cadmium	<0.0050		0.0500	0.0579		mg/L		116	50 - 150
Chromium	<0.025		0.200	0.210		mg/L		105	50 - 150
Cobalt	0.036		0.500	0.620		mg/L		117	50 - 150
Copper	<0.025		0.250	0.302		mg/L		121	50 - 150
Iron	1.8		1.00	2.69		mg/L		92	50 - 150
Lead	0.014		0.100	0.120		mg/L		106	50 - 150
Magnesium	65		10.0	76.3	4	mg/L		115	50 - 150
Calcium	180		10.0	195	4	mg/L		128	50 - 150
Manganese	8.9		0.500	9.85	4	mg/L		183	50 - 150
Nickel	0.038		0.500	0.606		mg/L		114	50 - 150
Selenium	<0.050		0.100	0.126		mg/L		126	50 - 150
Vanadium	<0.025		0.500	0.556		mg/L		111	50 - 150
Zinc	0.18	J B	0.500	0.710		mg/L		105	50 - 150
Potassium	3.5		10.0	14.3		mg/L		108	50 - 150

**Lab Sample ID: 500-100826-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.016	J	0.0127	J F5	mg/L		25	20
Barium	0.88		0.879		mg/L		0.05	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.036		0.0360		mg/L		1	20
Copper	<0.025		0.0108	J	mg/L		NC	20
Iron	1.8		1.79		mg/L		1	20
Lead	0.014		0.0127		mg/L		11	20
Magnesium	65		64.8		mg/L		0.2	20
Calcium	180		183		mg/L		0.3	20
Manganese	8.9		8.96		mg/L		0.3	20
Nickel	0.038		0.0382		mg/L		0.8	20
Selenium	<0.050		<0.050		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.18	J B	0.182	J	mg/L		1	20
Potassium	3.5		3.55		mg/L		1	20

**Lab Sample ID: LB 500-303601/1-D**  
**Matrix: Solid**  
**Analysis Batch: 304372**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304235**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 13:56	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB2 500-303602/1-D**  
**Matrix: Solid**  
**Analysis Batch: 304372**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304235**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 14:01	1

**Lab Sample ID: LB 500-303605/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303788**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Barium	0.0587	J	0.50	0.050	mg/L		09/10/15 17:00	09/11/15 16:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 16:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 16:01	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 16:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 16:01	1
Magnesium	1.09	J	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 16:01	1
Calcium	3.03	J	6.0	0.50	mg/L		09/10/15 17:00	09/11/15 16:01	1
Manganese	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 16:01	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 16:01	1
Zinc	0.193	J	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 16:01	1
Potassium	0.505	J	2.5	0.50	mg/L		09/10/15 17:00	09/11/15 16:01	1

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.032	J	0.100	0.109		mg/L		77	50 - 150
Barium	0.61	B F1	0.500	0.801	F1	mg/L		38	50 - 150
Beryllium	<0.0040		0.0500	0.0461		mg/L		92	50 - 150
Cadmium	<0.0050		0.0500	0.0419		mg/L		84	50 - 150
Chromium	0.099		0.200	0.252		mg/L		77	50 - 150
Cobalt	0.019	J	0.500	0.439		mg/L		84	50 - 150
Copper	0.097		0.250	0.280		mg/L		73	50 - 150
Iron	94		1.00	73.9	4	mg/L		-2026	50 - 150
Lead	0.54		0.100	0.483	4	mg/L		-61	50 - 150
Magnesium	19	B F1	10.0	23.3	F1	mg/L		39	50 - 150
Calcium	24	B F1	10.0	23.5	F1	mg/L		-8	50 - 150
Manganese	0.85	F1	0.500	1.08	F1	mg/L		48	50 - 150
Nickel	0.076		0.500	0.469		mg/L		78	50 - 150
Selenium	<0.050		0.100	0.0804		mg/L		80	50 - 150
Silver	<0.025		0.0500	0.0421		mg/L		84	50 - 150
Vanadium	0.14		0.500	0.555		mg/L		83	50 - 150
Zinc	0.58	B F1	0.500	0.789	F1	mg/L		42	50 - 150

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Potassium	12	B	10.0	18.7		mg/L		66	50 - 150

**Lab Sample ID: 500-100826-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303788**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	0.032	J	0.0290	J	mg/L		11	20
Barium	0.61	B F1	0.540		mg/L		12	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	0.099		0.0891		mg/L		10	20
Cobalt	0.019	J	0.0171	J	mg/L		9	20
Copper	0.097		0.0910		mg/L		6	20
Iron	94		83.4		mg/L		12	20
Lead	0.54		0.486		mg/L		11	20
Magnesium	19	B F1	17.4		mg/L		11	20
Calcium	24	B F1	21.4		mg/L		13	20
Manganese	0.85	F1	0.752		mg/L		12	20
Nickel	0.076		0.0683		mg/L		11	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.14		0.129		mg/L		9	20
Zinc	0.58	B F1	0.531		mg/L		9	20
Potassium	12	B	11.0		mg/L		9	20

**Lab Sample ID: LB 500-303606/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303789**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Barium	<0.50		0.50	0.050	mg/L		09/10/15 17:00	09/11/15 12:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/15 17:00	09/11/15 12:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/10/15 17:00	09/11/15 12:54	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Cobalt	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Copper	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Iron	<0.20		0.20	0.20	mg/L		09/10/15 17:00	09/11/15 12:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/10/15 17:00	09/11/15 12:54	1
Magnesium	<2.5		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 12:54	1
Calcium	<6.0		6.0	0.50	mg/L		09/10/15 17:00	09/11/15 12:54	1
Manganese	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/10/15 17:00	09/11/15 12:54	1
Silver	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Vanadium	<0.025		0.025	0.010	mg/L		09/10/15 17:00	09/11/15 12:54	1
Zinc	0.0836	J	0.50	0.020	mg/L		09/10/15 17:00	09/11/15 12:54	1
Potassium	<2.5		2.5	0.50	mg/L		09/10/15 17:00	09/11/15 12:54	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Lab Sample ID: 500-100826-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303789**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.070		0.100	0.167		mg/L		97	50 - 150
Barium	0.85		0.500	1.36		mg/L		103	50 - 150
Beryllium	0.0070		0.0500	0.0499		mg/L		86	50 - 150
Cadmium	<0.0050		0.0500	0.0395		mg/L		79	50 - 150
Chromium	0.15		0.200	0.364		mg/L		106	50 - 150
Cobalt	0.052		0.500	0.467		mg/L		83	50 - 150
Copper	0.17		0.250	0.425		mg/L		101	50 - 150
Iron	160		1.00	205	4	mg/L		4711	50 - 150
Lead	0.23		0.100	0.376		mg/L		143	50 - 150
Magnesium	27		10.0	41.0		mg/L		142	50 - 150
Calcium	30		10.0	38.4		mg/L		86	50 - 150
Manganese	1.9	F1	0.500	2.85	F1	mg/L		181	50 - 150
Nickel	0.16		0.500	0.601		mg/L		89	50 - 150
Selenium	<0.050		0.100	0.0745		mg/L		74	50 - 150
Silver	<0.025		0.0500	0.0415		mg/L		83	50 - 150
Vanadium	0.26		0.500	0.745		mg/L		98	50 - 150
Zinc	0.54	B	0.500	0.960		mg/L		84	50 - 150
Potassium	18		10.0	32.2		mg/L		141	50 - 150

**Lab Sample ID: 500-100826-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303789**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.070		0.0794		mg/L		13	20
Barium	0.85		0.964		mg/L		13	20
Beryllium	0.0070		0.00790		mg/L		12	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	0.15		0.172		mg/L		12	20
Cobalt	0.052		0.0590		mg/L		12	20
Copper	0.17		0.202		mg/L		15	20
Iron	160		177		mg/L		12	20
Lead	0.23		0.264		mg/L		12	20
Magnesium	27		29.9		mg/L		11	20
Calcium	30		33.6		mg/L		12	20
Manganese	1.9	F1	2.20		mg/L		12	20
Nickel	0.16		0.177		mg/L		11	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.26		0.288		mg/L		11	20
Zinc	0.54	B	0.603		mg/L		11	20
Potassium	18		20.7		mg/L		14	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: LCS 500-303717/3-A**  
**Matrix: Solid**  
**Analysis Batch: 303845**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303717**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.444		mg/L		89	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

**Lab Sample ID: LCS 500-303731/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303731**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.481		mg/L		96	80 - 120
Thallium	0.100	0.114		mg/L		114	80 - 120

**Lab Sample ID: LCS 500-303788/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303788**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.451		mg/L		90	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

**Lab Sample ID: LCS 500-303789/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303789**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.475		mg/L		95	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

**Lab Sample ID: LB 500-303591/1-B**  
**Matrix: Solid**  
**Analysis Batch: 303845**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303717**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 19:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 19:54	1

**Lab Sample ID: LB2 500-303600/1-B**  
**Matrix: Solid**  
**Analysis Batch: 303845**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303717**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 10:00	09/10/15 19:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 10:00	09/10/15 19:55	1

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303845**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303717**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.463		mg/L		93	50 - 150

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303845**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303717**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Thallium	<0.0020		0.100	0.122		mg/L		122	50 - 150

**Lab Sample ID: 500-100826-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303845**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303717**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: LB 500-303601/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:37	1

**Lab Sample ID: LB2 500-303602/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 13:00	09/15/15 09:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 13:00	09/15/15 09:38	1

**Lab Sample ID: 500-100826-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.484		mg/L		97	50 - 150
Thallium	<0.0020		0.100	0.122		mg/L		122	50 - 150

**Lab Sample ID: 500-100826-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303731**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: LB 500-303605/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303788**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:19	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: 500-100826-1 MS**

**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: SPLP East**  
**Prep Batch: 303788**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060	F1	0.500	0.211	F1	mg/L		42	50 - 150
Thallium	0.0024		0.100	0.0940		mg/L		92	50 - 150

**Lab Sample ID: 500-100826-1 DU**

**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B08 (0-2)**

**Prep Type: SPLP East**  
**Prep Batch: 303788**

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060	F1	<0.0060		mg/L		NC	20
Thallium	0.0024		0.00230		mg/L		6	20

**Lab Sample ID: LB 500-303606/1-B**

**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**

**Prep Type: SPLP East**  
**Prep Batch: 303789**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		09/10/15 17:00	09/15/15 11:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/15 17:00	09/15/15 11:46	1

**Lab Sample ID: 500-100826-21 MS**

**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B29 (0-2)**

**Prep Type: SPLP East**  
**Prep Batch: 303789**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060	F1	0.500	0.0844	F1	mg/L		17	50 - 150
Thallium	0.0030		0.100	0.0828		mg/L		80	50 - 150

**Lab Sample ID: 500-100826-21 DU**

**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B29 (0-2)**

**Prep Type: SPLP East**  
**Prep Batch: 303789**

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060	F1	<0.0060		mg/L		NC	20
Thallium	0.0030		0.00287		mg/L		4	20

## Method: 7470A - TCLP Mercury

**Lab Sample ID: MB 500-303762/12-A**

**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 303762**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:07	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 7470A - TCLP Mercury (Continued)

**Lab Sample ID: LCS 500-303762/13-A**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303762**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00223		mg/L		111	80 - 120

**Lab Sample ID: MB 500-303764/12-A**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303764**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:09	1

**Lab Sample ID: LCS 500-303764/13-A**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303764**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00194		mg/L		97	80 - 120

**Lab Sample ID: LB 500-303591/1-C**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303762**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:15	1

**Lab Sample ID: LB2 500-303600/1-C**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303762**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 12:16	1

**Lab Sample ID: 500-100826-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: 2618-7-B10 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303762**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000784		mg/L		78	50 - 150

**Lab Sample ID: 500-100826-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: 2618-7-B10 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303762**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

**Lab Sample ID: LB 500-303601/1-C**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303764**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:13	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Lab Sample ID: LB2 500-303602/1-C**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 303764**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 13:15	1

**Lab Sample ID: 500-100826-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: 2618-7-B30 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303764**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000787		mg/L		79	50 - 150

**Lab Sample ID: 500-100826-22 DU**  
**Matrix: Solid**  
**Analysis Batch: 303932**

**Client Sample ID: 2618-7-B30 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 303764**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-303981/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303981**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:51	1

**Lab Sample ID: LCS 500-303981/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303981**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00175		mg/L		88	80 - 120

**Lab Sample ID: MB 500-303983/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303983**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 08:50	1

**Lab Sample ID: LCS 500-303983/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303983**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00179		mg/L		90	80 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LB 500-303605/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303981**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 09:55	1

**Lab Sample ID: 500-100826-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B10 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303981**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00127		mg/L		127	50 - 150

**Lab Sample ID: 500-100826-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B10 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303981**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

**Lab Sample ID: LB 500-303606/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303983**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 08:54	1

**Lab Sample ID: 500-100826-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B30 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303983**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000953		mg/L		95	50 - 150

**Lab Sample ID: 500-100826-22 DU**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B30 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303983**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 500-303542/12-A**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303542**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg		09/09/15 14:00	09/10/15 09:40	1

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 7471B - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 500-303542/13-A**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303542**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.178		mg/Kg		106	80 - 120

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.074		0.0975	0.195		mg/Kg	☼	124	75 - 125

**Lab Sample ID: 500-100826-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.074		0.0908	0.178		mg/Kg	☼	115	75 - 125	9	20

**Lab Sample ID: 500-100826-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303542**

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.074			0.0736		mg/Kg	☼			0.5	20

**Lab Sample ID: MB 500-303548/12-A**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303548**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg		09/09/15 14:00	09/10/15 10:40	1

**Lab Sample ID: LCS 500-303548/13-A**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303548**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.188		mg/Kg		113	80 - 120

**Lab Sample ID: 500-100826-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303548**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.029		0.0893	0.132		mg/Kg	☼	116	75 - 125

**Lab Sample ID: 500-100826-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303548**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.029		0.0932	0.140		mg/Kg	☼	119	75 - 125	6	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Lab Sample ID: 500-100826-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 303723**

**Client Sample ID: 2618-7-B29 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303548**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.029		0.0401	F5	mg/Kg	☼	33	20

## Method: 9014 - Cyanide

**Lab Sample ID: MB 500-303461/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303596**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303461**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/09/15 12:35	09/09/15 15:35	1

**Lab Sample ID: LCS 500-303461/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303596**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303461**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.40		mg/Kg		108	80 - 120

**Lab Sample ID: 500-100826-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303596**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303461**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.60		2.41	2.52		mg/Kg	☼	105	75 - 125

**Lab Sample ID: 500-100826-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303596**

**Client Sample ID: 2618-7-B08 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303461**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.60		2.41	2.55		mg/Kg	☼	106	75 - 125	1	20

**Lab Sample ID: MB 500-303586/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303613**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303586**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/09/15 17:20	09/09/15 19:55	1

**Lab Sample ID: LCS 500-303586/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303613**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.33		mg/Kg		107	80 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 9014 - Cyanide (Continued)

**Lab Sample ID: 500-100826-18 MS**  
**Matrix: Solid**  
**Analysis Batch: 303613**

**Client Sample ID: 2618-7-B26 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303586**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.56		2.24	2.28		mg/Kg	☼	102	75 - 125

**Lab Sample ID: 500-100826-18 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303613**

**Client Sample ID: 2618-7-B26 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303586**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.56		2.23	2.38		mg/Kg	☼	107	75 - 125	4	20

**Lab Sample ID: MB 500-303611/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303634**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303611**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/09/15 21:40	09/09/15 23:35	1

**Lab Sample ID: LCS 500-303611/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303634**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303611**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.47		mg/Kg		109	80 - 120

**Lab Sample ID: 500-100826-27 MS**  
**Matrix: Solid**  
**Analysis Batch: 303634**

**Client Sample ID: 2618-7-B35 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303611**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.57		2.30	2.57		mg/Kg	☼	112	75 - 125

**Lab Sample ID: 500-100826-27 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303634**

**Client Sample ID: 2618-7-B35 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303611**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.57		2.30	2.34		mg/Kg	☼	101	75 - 125	10	20

## Method: 9045D - pH

**Lab Sample ID: 500-100826-5 DU**  
**Matrix: Solid**  
**Analysis Batch: 303885**

**Client Sample ID: 2618-7-B13 (0-2)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.56		8.520		SU		0.5	

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

## Method: 9045D - pH (Continued)

Lab Sample ID: 500-100826-34 DU  
Matrix: Solid  
Analysis Batch: 303885

Client Sample ID: 2618-7-B42 (0-2)  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.28		8.270		SU		0.1	

Lab Sample ID: 500-100826-35 DU  
Matrix: Solid  
Analysis Batch: 303885

Client Sample ID: 2618-7-B43 (0-2)  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.31		8.300		SU		0.1	

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

**Date Collected: 09/03/15 17:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 16:15	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 18:42	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:21	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 19:57	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:57	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 13:40		
					(End)	09/10/15 13:44		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B08 (0-2)**

**Lab Sample ID: 500-100826-1**

**Date Collected: 09/03/15 17:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 15:34	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	304240	09/15/15 00:11	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 00:08	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 21:43	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 09:43	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:39		
					(End)	09/09/15 15:40		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B10 (0-2)**

**Lab Sample ID: 500-100826-2**

**Date Collected: 09/03/15 17:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 16:42	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:02	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:25	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:00	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:14	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 13:44		
					(End)	09/10/15 13:49		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B10 (0-2)**

**Lab Sample ID: 500-100826-2**

**Date Collected: 09/03/15 17:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 15:59	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 02:58	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 00:42	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:06	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 09:51	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:42		
					(End)	09/09/15 15:42		

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B11 (0-2)**

**Lab Sample ID: 500-100826-3**

**Date Collected: 09/03/15 17:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:05	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:07	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:28	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:01	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:20	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 13:49		
					(End)	09/10/15 13:53		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B11 (0-2)**

**Lab Sample ID: 500-100826-3**

**Date Collected: 09/03/15 17:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 16:23	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/11/15 23:02	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 00:49	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:11	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 09:54	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:42		
					(End)	09/09/15 15:42		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:11	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:12	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:29	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:02	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:22	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:28	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 13:53		
					(End)	09/10/15 13:58		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B12 (0-2)**

**Lab Sample ID: 500-100826-4**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 16:47	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 01:00	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 00:56	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:16	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 09:56	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:42		
					(End)	09/09/15 15:43		

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

**Date Collected: 09/03/15 16:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:18	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:24	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:30	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:06	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:24	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:30	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	(Start) 09/10/15 13:58 (End) 09/10/15 14:02	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B13 (0-2)**

**Lab Sample ID: 500-100826-5**

**Date Collected: 09/03/15 16:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 17:12	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 01:30	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 01:18	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:29	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 09:58	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596	(Start) 09/09/15 15:43 (End) 09/09/15 15:43	ELR	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:25	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:29	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:31	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:07	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:26	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	(Start) 09/10/15 14:06 (End) 09/10/15 14:11	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B14 (0-2)**

**Lab Sample ID: 500-100826-6**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 17:36	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 01:59	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 01:25	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:33	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:04	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596	(Start) 09/09/15 15:43 (End) 09/09/15 15:44	ELR	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B15 (0-2)**

**Lab Sample ID: 500-100826-7**

**Date Collected: 09/03/15 16:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:32	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:34	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:32	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:08	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:28	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:38	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:11		
					(End)	09/10/15 14:15		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B15 (0-2)**

**Lab Sample ID: 500-100826-7**

**Date Collected: 09/03/15 16:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 18:00	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/11/15 23:32	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 01:32	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:37	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:06	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:44		
					(End)	09/09/15 15:44		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B16 (0-2)**

**Lab Sample ID: 500-100826-8**

**Date Collected: 09/03/15 16:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:38	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:40	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:33	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:09	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:30	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:15		
					(End)	09/10/15 14:20		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B16 (0-2)**

**Lab Sample ID: 500-100826-8**

**Date Collected: 09/03/15 16:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 18:24	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 03:27	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 01:39	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:42	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:08	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:44		
					(End)	09/09/15 15:45		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B17 (0-2)**

**Lab Sample ID: 500-100826-9**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:45	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:45	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:34	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:10	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:32	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:20		
					(End)	09/10/15 14:24		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B17 (0-2)**

**Lab Sample ID: 500-100826-9**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 18:49	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 03:57	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 01:45	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:46	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:10	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:45		
					(End)	09/09/15 15:45		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B18 (0-2)**

**Lab Sample ID: 500-100826-10**

**Date Collected: 09/03/15 16:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:52	PJ1	TAL CHI
TCLP	Leach	1311			303600	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:50	PJ1	TAL CHI
TCLP	Leach	1311			303600	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		10	303937	09/11/15 13:15	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:35	PFK	TAL CHI
TCLP	Leach	1311			303600	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:11	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:37	MJD	TAL CHI
TCLP	Leach	1311			303600	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:24		
					(End)	09/10/15 14:28		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B18 (0-2)**

**Lab Sample ID: 500-100826-10**

**Date Collected: 09/03/15 16:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 19:13	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 00:01	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 01:52	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:50	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:13	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:45		
					(End)	09/09/15 15:46		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B19 (0-2)**

**Lab Sample ID: 500-100826-11**

**Date Collected: 09/03/15 15:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 17:59	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 19:55	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:35	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:12	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:39	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:28		
					(End)	09/10/15 14:33		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B19 (0-2)**

**Lab Sample ID: 500-100826-11**

**Date Collected: 09/03/15 15:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 19:37	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	304240	09/15/15 01:30	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 01:59	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 22:55	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:15	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:47		
					(End)	09/09/15 15:47		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

**Date Collected: 09/03/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 18:05	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:00	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:36	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:13	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:41	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:33		
					(End)	09/10/15 14:37		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B20 (0-2)**

**Lab Sample ID: 500-100826-12**

**Date Collected: 09/03/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 20:01	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 02:28	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 02:06	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:00	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:17	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:47		
					(End)	09/09/15 15:48		

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B21 (0-2)**

**Lab Sample ID: 500-100826-13**

**Date Collected: 09/03/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 19:15	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:05	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:39	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:14	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:43	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:37		
					(End)	09/10/15 14:42		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B21 (0-2)**

**Lab Sample ID: 500-100826-13**

**Date Collected: 09/03/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 20:25	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	304240	09/15/15 01:56	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 02:13	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:04	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:19	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:48		
					(End)	09/09/15 15:48		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B22 (0-2)**

**Lab Sample ID: 500-100826-14**

**Date Collected: 09/03/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 19:22	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:10	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:40	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:15	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:45	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:42		
					(End)	09/10/15 14:46		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B22 (0-2)**

**Lab Sample ID: 500-100826-14**

**Date Collected: 09/03/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 20:50	DJD	TAL CHI
Total/NA	Prep	3541			303295	09/08/15 07:53	STW	TAL CHI
Total/NA	Analysis	8270D		1	303944	09/12/15 00:31	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 02:19	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:09	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:21	MJD	TAL CHI
Total/NA	Prep	9010B			303461	09/09/15 12:35	ELR	TAL CHI
Total/NA	Analysis	9014		1	303596		ELR	TAL CHI
					(Start)	09/09/15 15:48		
					(End)	09/09/15 15:49		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B23 (0-2)**

**Lab Sample ID: 500-100826-15**

**Date Collected: 09/03/15 14:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 19:29	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:23	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:41	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:18	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:47	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:53	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:46		
					(End)	09/10/15 14:50		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B23 (0-2)**

**Lab Sample ID: 500-100826-15**

**Date Collected: 09/03/15 14:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 21:14	DJD	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 04:27	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 02:42	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:25	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:23	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 19:57		
					(End)	09/09/15 19:57		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B24 (0-2)**

**Lab Sample ID: 500-100826-16**

**Date Collected: 09/03/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 19:36	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:28	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:42	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:19	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:49	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 12:55	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:50		
					(End)	09/10/15 14:55		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B24 (0-2)**

**Lab Sample ID: 500-100826-16**

**Date Collected: 09/03/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 21:38	DJD	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 04:53	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 02:49	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:30	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:29	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 19:57		
					(End)	09/09/15 19:58		

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

**Date Collected: 09/03/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 19:42	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:33	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:43	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:20	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:51	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:55		
					(End)	09/10/15 14:59		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B25 (0-2)**

**Lab Sample ID: 500-100826-17**

**Date Collected: 09/03/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 11:53	DJD	TAL CHI
Total/NA	Prep	3541			303414	09/08/15 15:55	JP1	TAL CHI
Total/NA	Analysis	8270D		1	304240	09/15/15 02:22	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 02:56	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:34	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:32	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 19:58		
					(End)	09/09/15 19:58		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

**Date Collected: 09/03/15 14:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 19:49	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:38	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:43	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:21	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:53	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:03	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 14:59		
					(End)	09/10/15 15:04		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B26 (0-2)**

**Lab Sample ID: 500-100826-18**

**Date Collected: 09/03/15 14:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 22:39	DJD	TAL CHI
Total/NA	Prep	3541			303414	09/08/15 15:55	JP1	TAL CHI
Total/NA	Analysis	8270D		5	304240	09/15/15 02:48	TNW	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 03:02	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:38	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:34	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 19:58		
					(End)	09/09/15 19:58		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B27 (0-2)**

**Lab Sample ID: 500-100826-19**

**Date Collected: 09/03/15 12:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 19:56	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:43	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:44	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:22	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 10:55	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:05	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:04		
					(End)	09/10/15 15:08		
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B27 (0-2)**

**Lab Sample ID: 500-100826-19**

**Date Collected: 09/03/15 12:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 73.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 12:18	DJD	TAL CHI
Total/NA	Prep	3541			303414	09/08/15 15:55	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303702	09/10/15 17:47	BJH	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 03:09	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:42	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:36	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 19:59		
					(End)	09/09/15 20:00		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B28 (0-2)**

**Lab Sample ID: 500-100826-20**

**Date Collected: 09/03/15 12:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 20:03	PJ1	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6010B		1	303870	09/10/15 20:48	PJ1	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303788	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:45	PFK	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303717	09/10/15 10:00	JML	TAL CHI
TCLP	Analysis	6020A		1	303845	09/10/15 20:23	PFK	TAL CHI
SPLP East	Leach	1312			303605	09/09/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303981	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:10	MJD	TAL CHI
TCLP	Leach	1311			303591	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303762	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	(Start) 09/10/15 15:08 (End) 09/10/15 15:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303165	09/04/15 15:31	LWN	TAL CHI

**Client Sample ID: 2618-7-B28 (0-2)**

**Lab Sample ID: 500-100826-20**

**Date Collected: 09/03/15 12:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303247	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 23:27	DJD	TAL CHI
Total/NA	Prep	3541			303414	09/08/15 15:55	JP1	TAL CHI
Total/NA	Analysis	8270D		10	303702	09/10/15 21:16	BJH	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 03:16	PJ1	TAL CHI
Total/NA	Prep	3050B			303340	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303663	09/09/15 23:46	PJ1	TAL CHI
Total/NA	Prep	7471B			303542	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:38	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613	(Start) 09/09/15 20:00 (End) 09/09/15 20:00	ELR	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

**Date Collected: 09/03/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 13:08	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 15:33	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:13	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:51	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:40	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 08:56	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:12		
					(End)	09/10/15 15:17		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B29 (0-2)**

**Lab Sample ID: 500-100826-21**

**Date Collected: 09/03/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/08/15 23:51	DJD	TAL CHI
Total/NA	Prep	3541			303414	09/08/15 15:55	JP1	TAL CHI
Total/NA	Analysis	8270D		5	303702	09/10/15 19:43	BJH	TAL CHI
Total/NA	Prep	3050B			303778	09/10/15 18:43	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304074	09/12/15 05:41	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 12:10	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 20:00		
					(End)	09/09/15 20:00		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B30 (0-2)**

**Lab Sample ID: 500-100826-22**

**Date Collected: 09/03/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 13:35	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 15:53	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:26	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:55	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:43	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 08:58	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:17		
					(End)	09/10/15 15:21		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B30 (0-2)**

**Lab Sample ID: 500-100826-22**

**Date Collected: 09/03/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303377	09/09/15 00:15	DJD	TAL CHI
Total/NA	Prep	3541			303414	09/08/15 15:55	JP1	TAL CHI
Total/NA	Analysis	8270D		5	303702	09/10/15 20:06	BJH	TAL CHI
Total/NA	Prep	3050B			303778	09/10/15 18:43	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304074	09/12/15 05:47	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:56	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 20:00		
					(End)	09/09/15 20:01		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B31 (0-2)**

**Lab Sample ID: 500-100826-23**

**Date Collected: 09/03/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 13:42	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 15:58	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:31	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:55	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:44	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:03	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:29	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:21		
					(End)	09/10/15 15:26		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B31 (0-2)**

**Lab Sample ID: 500-100826-23**

**Date Collected: 09/03/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 12:43	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303995	09/12/15 04:16	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 14:49	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 10:58	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 20:01		
					(End)	09/09/15 20:01		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 13:48	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:03	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:36	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:56	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:45	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:05	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:31	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:26		
					(End)	09/10/15 15:30		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B32 (0-2)**

**Lab Sample ID: 500-100826-24**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 13:09	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		5	303995	09/12/15 04:41	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 14:55	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:00	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 20:01		
					(End)	09/09/15 20:01		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 13:55	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:16	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:41	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:57	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:48	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:07	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:33	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:30		
					(End)	09/10/15 15:35		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B33 (0-2)**

**Lab Sample ID: 500-100826-25**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 81.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 13:34	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		5	303995	09/12/15 05:05	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 15:18	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303770	09/10/15 12:23	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:02	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 20:01		
					(End)	09/09/15 20:01		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

**Date Collected: 09/03/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 14:16	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:21	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:46	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:58	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:49	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:15	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:34		
					(End)	09/10/15 15:39		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

**Date Collected: 09/03/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 14:00	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303995	09/12/15 05:29	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 15:25	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		10	303770	09/10/15 12:27	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:04	MJD	TAL CHI
Total/NA	Prep	9010B			303586	09/09/15 17:20	ELR	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B34 (0-2)**

**Lab Sample ID: 500-100826-26**

**Date Collected: 09/03/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	303613		ELR	TAL CHI
					(Start)	09/09/15 20:01		
					(End)	09/09/15 20:02		

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 14:22	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:26	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		10	304279	09/14/15 12:50	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:51	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 11:59	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:50	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:17	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:39		
					(End)	09/10/15 15:43		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 (0-2)**

**Lab Sample ID: 500-100826-27**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	303488	09/09/15 14:26	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303995	09/12/15 05:53	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 15:32	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303770	09/10/15 12:31	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:06	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:36		
					(End)	09/09/15 23:37		

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 14:29	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:31	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		10	304279	09/14/15 12:54	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 14:56	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:02	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:51	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:19	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:38	MJD	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:43		
					(End)	09/10/15 15:48		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B36 (0-2)**

**Lab Sample ID: 500-100826-28**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 14:52	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 01:49	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 15:38	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:08	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:37		
					(End)	09/09/15 23:38		

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

**Date Collected: 09/03/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 14:36	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:36	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		10	304279	09/14/15 12:58	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 15:02	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:03	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

**Date Collected: 09/03/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:51	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:21	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:48		
					(End)	09/10/15 15:52		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B37 (0-2)**

**Lab Sample ID: 500-100826-29**

**Date Collected: 09/03/15 11:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 15:17	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303995	09/12/15 06:17	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 15:45	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303770	09/10/15 12:35	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:10	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:38		
					(End)	09/09/15 23:38		

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 14:43	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:41	PJ1	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		10	304279	09/14/15 13:02	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 15:07	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:03	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:52	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:23	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:52		
					(End)	09/10/15 15:57		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B38 (0-2)**

**Lab Sample ID: 500-100826-30**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 15:43	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303995	09/12/15 06:42	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 15:52	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		10	303770	09/10/15 12:39	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:12	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:38		
					(End)	09/09/15 23:39		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B39 (0-2)**

**Lab Sample ID: 500-100826-31**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 14:49	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:46	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304372	09/15/15 15:12	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:04	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:53	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:25	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 15:57		
					(End)	09/10/15 16:01		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B39 (0-2)**

**Lab Sample ID: 500-100826-31**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 16:09	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		5	303995	09/12/15 07:06	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 15:59	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		10	303770	09/10/15 12:43	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:18	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:39		
					(End)	09/09/15 23:39		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B40 (0-2)**

**Lab Sample ID: 500-100826-32**

**Date Collected: 09/03/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 14:56	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304371	09/15/15 14:55	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:51	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:05	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:54	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:27	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:01		
					(End)	09/10/15 16:05		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B40 (0-2)**

**Lab Sample ID: 500-100826-32**

**Date Collected: 09/03/15 10:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 16:35	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 02:15	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 16:05	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:20	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:39		
					(End)	09/09/15 23:40		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

**Date Collected: 09/03/15 10:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 15:03	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304371	09/15/15 14:59	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 16:55	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		10	304279	09/14/15 13:06	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:06	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:55	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:29	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:05		
					(End)	09/10/15 16:10		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

**Date Collected: 09/03/15 10:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 90.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 17:01	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 07:04	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 16:12	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		10	303770	09/10/15 12:47	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:22	MJD	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B41 (0-2)**

**Lab Sample ID: 500-100826-33**

**Date Collected: 09/03/15 10:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 90.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634	(Start) 09/09/15 23:40 (End) 09/09/15 23:41	ELR	TAL CHI

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

**Date Collected: 09/03/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 15:10	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304371	09/15/15 15:12	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 17:00	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:07	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:56	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:30	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:54	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	(Start) 09/10/15 16:10 (End) 09/10/15 16:14	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

**Date Collected: 09/03/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 17:27	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B42 (0-2)**

**Lab Sample ID: 500-100826-34**

**Date Collected: 09/03/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	303821	09/11/15 02:42	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 16:19	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:24	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:41		
					(End)	09/09/15 23:41		

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

**Date Collected: 09/03/15 09:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 15:16	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304371	09/15/15 15:16	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 17:12	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:08	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 09:59	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:32	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:56	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:19		
					(End)	09/10/15 16:23		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B43 (0-2)**

**Lab Sample ID: 500-100826-35**

**Date Collected: 09/03/15 09:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 17:52	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 03:08	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 16:41	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:26	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:41		
					(End)	09/09/15 23:42		

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

**Date Collected: 09/03/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 15:39	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304371	09/15/15 15:20	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 17:17	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:09	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:00	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:39	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 13:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:27		
					(End)	09/10/15 16:32		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B44 (0-2)**

**Lab Sample ID: 500-100826-36**

**Date Collected: 09/03/15 09:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 18:18	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 03:34	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 16:48	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		10	303770	09/10/15 12:51	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:28	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:42		
					(End)	09/09/15 23:42		

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 15:46	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304371	09/15/15 15:24	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 17:21	PJ1	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		10	304279	09/14/15 13:10	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:10	PFK	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:01	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:41	MJD	TAL CHI
TCLP	Leach	1311			303602	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 14:00	MJD	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	303885	09/10/15 16:32 (Start) 09/10/15 16:36 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B35 DUP (0-2)**

**Lab Sample ID: 500-100826-37**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 18:43	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	303821	09/11/15 04:00	TNW	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 16:55	PJ1	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:30	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634	09/09/15 23:42 (Start) 09/09/15 23:42 (End)	ELR	TAL CHI

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 15:52	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			304235	09/14/15 19:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	304371	09/15/15 15:29	PJ1	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304083	09/11/15 17:26	PJ1	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI
SPLP East	Prep	3010A			303789	09/10/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 12:12	PFK	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	3010A			303731	09/10/15 13:00	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:02	PFK	TAL CHI
SPLP East	Leach	1312			303606	09/09/15 15:30	FXG	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100826-1

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Prep	7470A			303983	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 09:43	MJD	TAL CHI
TCLP	Leach	1311			303601	09/09/15 15:30	FXG	TAL CHI
TCLP	Prep	7470A			303764	09/10/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	303932	09/11/15 14:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:36		
					(End)	09/10/15 16:41		
Total/NA	Analysis	Moisture		1	303172	09/04/15 16:04	LWN	TAL CHI

**Client Sample ID: 2618-7-B20 DUP (0-2)**

**Lab Sample ID: 500-100826-38**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303248	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303488	09/09/15 19:09	DJD	TAL CHI
Total/NA	Prep	3541			303412	09/08/15 15:52	JP1	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/16/15 00:17	BJH	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303669	09/09/15 17:16	PJ1	TAL CHI
Total/NA	Prep	3050B			303441	09/08/15 18:20	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303770	09/10/15 12:55	KML	TAL CHI
Total/NA	Prep	7471B			303548	09/09/15 14:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303723	09/10/15 11:33	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:42		
					(End)	09/09/15 23:43		

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Report To (optional)  
 Contact: MATTHEISS  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100826

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of 23, 36, 3, 0, 40

Temperature of 33, 34, 27, 25, 28 °C

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>TERRACON</u>		<u>1157108</u>											
Project Name		Lab Project #		Date		Time		# of Containers		Matrix			
<u>HOFFMAN ES STATES, IL</u>													
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix			
<u>HOFFMAN ES STATES, IL</u>													
Sampler		Lab PM		Date		Time		# of Containers		Matrix			
<u>Tommy Bolina</u>													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCS	TOTAL 24 INORGANICS	TCUP 24 INORGANICS	SRP INORGANICS	PIT	Preservative Key
1		<u>2618-7-B08 (0-2)</u>	<u>9/3/15</u>	<u>1735</u>	<u>6</u>	<u>SO</u>	X	X	X	X	X	X	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
		<del>2618-7-B09</del>	<del>9/3/15</del>										Depths added to spreadsheet provided by Terracon personnel 9/18/15 JB
2		<u>11-11-B10 (0-2)</u>		<u>1725</u>	<u>6</u>	<u>SO</u>	X	X	X	X	X	X	
3		<u>- B11 (0-2)</u>		<u>1715</u>									
4		<u>- B12 (0-2)</u>		<u>1710</u>									
5		<u>- B13 (0-2)</u>		<u>1650</u>									
6		<u>- B14 (0-2)</u>		<u>1645</u>									
7		<u>- B15 (0-2)</u>		<u>1640</u>									
8		<u>- B16 (0-2)</u>		<u>1630</u>									
9		<u>- B17 (0-2)</u>		<u>1620</u>									

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>T Bolina</u>	Company: <u>TERRACON</u>	Date: <u>9/4/15</u>	Time: <u>810</u>	Received By: <u>P Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>0910</u>
Relinquished By: <u>P Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>0930</u>	Received By: <u>AMIN KHAN</u>	Company: <u>TA-CHE</u>	Date: <u>9/4/15</u>	Time: <u>0930</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: MEET IL TACO REQUIREMENTS DO NOT RUN ALUMINUM FOR TCU

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: MATTHEWS  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100826  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name																		
Project Location/State		Lab Project #																
Sampler		Lab PM																
Lab ID	M/S/MSD	Sample ID		Sampling		# of Containers	Matrix											Comments
		Date	Time															
10		2618-7-	B18 (0-2)	9/3/15	1600	6	SO	X	X	X	X	X	X	X	X	X	X	Depths added to sample lds per spreadsheet provided by Terracon personnel 09/08/15 gfb
11		2618-7-	B19 (0-2)		1550													
12			B20 (0-2)		1515													
13			B21 (0-2)		1506													
14			B22 (0-2)		1450													
15			B23 (0-2)		1440													
16			B24 (0-2)		1430													
17			B25 (0-2)		1420													
18			B26 (0-2)		1410													
19			B27 (0-2)		1250													

Turnaround Time Required (Business Days)

1 Day
  2 Days
  5 Days
  7 Days
  10 Days
  15 Days
  Other

Sample Disposal

Return to Client
  Disposal by Lab
  Archive for \_\_\_\_\_ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>[Signature]</i>	Company TERRACON	Date 9/4/15	Time 8:10	Received By <i>[Signature]</i>	Company TA	Date 9/4/15	Time 09:10
Relinquished By P. Neal	Company TA	Date 9/4/15	Time 09:30	Received By <i>[Signature]</i>	Company TA-CHE	Date 9/4/15	Time 09:30
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TD  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

MEET IL TACO REQUIREMENTS  
 DO NOT PUT ALUMINUM  
 FOR TAP

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) MATT WEISS  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100826  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter						Comments				
Project Location/State		Lab PM		Parameter										
Sampler		Lab PM		Parameter										
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix							
		Date	Time											
20		2618-7-B28 (0-2)	9-3-15	1240	6	SO	VOCs	SVOCs	TOTAL 24 IN ORGANICS	TECP 24 IN ORGANICS	SPLP IN ORGANICS	PH		
21		2618-7-B29 (0-2)		1230										Depths added to sample lvs per spreadsheet provided by Terracon personnel 09/08/15 qb
22		B30 (0-2)		1220										
23		B31 (0-2)		1210										
24		B32 (0-2)		1200										
25		B33 (0-2)		1150										
26		B34 (0-2)		1140										
27		B35 (0-2)		1125										
28		B36 (0-2)		1110										
29		B37 (0-2)		1100										

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>Terracon</u>	Date <u>9/4/15</u>	Time <u>810</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>0810</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>0930</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>0930</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments  
MEET IL TACO REQUIREMENT  
DO NOT RUN ALUMINUM FOR TECP

Lab Comments:  
 \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) MATT WEISS  
 Contact: \_\_\_\_\_  
 Company: TERRACON  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100824  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
<u>TERRACON</u>		<u>1157108</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		# of Containers		Matrix										Comments		
<u>HOFFMAN ESTATES, IL</u>				Date Time		↓ ↓		↓ ↓												
Lab ID	MS/MSD	Sample ID																		
<u>30</u>		<u>2618-7-B38 (0-2)</u>		<u>9/3/15</u>	<u>1055</u>	<u>6</u>	<u>50</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	Depths added to sample lds per spreadsheet provided by Terracon personnel 09/08/15 JB
<u>31</u>		<u>- B39 (0-2)</u>			<u>1045</u>															
<u>32</u>		<u>- B40 (0-2)</u>			<u>1035</u>															
<u>33</u>		<u>- B41 (0-2)</u>			<u>1025</u>															
<u>34</u>		<u>- B42 (0-2)</u>			<u>1010</u>															
<u>35</u>		<u>- B43 (0-2)</u>			<u>945</u>															
<u>36</u>		<u>- B44 (0-2)</u>			<u>930</u>															
<u>37</u>		<u>- B35 DUP (0-2) B35 (DUP)</u>			<u>1125</u>															
<u>38</u>		<u>- B20 DUP (0-2) B20 (DUP)</u>			<u>1520</u>															
		<del><u>B160</u></del>			<del><u>840</u></del>															

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days X 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company <u>TERRACON</u> Date <u>9/1/15</u> Time <u>810</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>9/4/15</u> Time <u>0810</u>
Relinquished By <u>J. Neal</u> Company <u>TA</u> Date <u>9/4/15</u> Time <u>0930</u>	Received By <u>[Signature]</u> Company <u>TA-CRI</u> Date <u>9/4/15</u> Time <u>0930</u>

Lab Courier TA  
 Shipped \_\_\_\_\_  
 Hand Delivered \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments  
MEET IL TACO REQUIREMENTS  
DO NOT RUN ALUMINUM FOR  
TCLP

Lab Comments:  
 \_\_\_\_\_



Sample Name	Depth (ft)
2618-7-B160 (0-6)	0-6
2618-7-B160 (6-13)	6--13
2618-7-B44	0-2
2618-7-B43	0-2
2618-7-B42	0-2
2618-7-B41	0-2
2618-7-B40	0-2
2618-7-B39	0-2
2618-7-B38	0-2
2618-7-B37	0-2
2618-7-B36	0-2
2618-7-B35	0-2
2618-7-B35 (DUPLICATE)	0-2
2618-7-B34	0-2
2618-7-B33	0-2
2618-7-B32	0-2
2618-7-B31	0-2
2618-7-B30	0-2
2618-7-B29	0-2
2618-7-B28	0-2
2618-7-B27	0-2
2618-9-B02 (0-6)	0-6
2618-9-B02 (6-13)	6--13
2618-9-B01 (0-6)	0-6
2618-9-B01 (6-13)	6--13
2618-7-B26	0-2
2618-7-B25	0-2
2618-7-B24	0-2
2618-7-B23	0-2
2618-7-B22	0-2
2618-7-B21	0-2
2618-7-B20	0-2
2618-7-B20 (DUPLICATE)	0-2
2618-7-B19	0-2
2618-7-B18	0-2
2618-7-B17	0-2
2618-7-B16	0-2
2618-7-B15	0-2
2618-7-B14	0-2
2618-7-B13	0-2
2618-7-B12	0-2
2618-7-B11	0-2
2618-7-B10	0-2
2618-7-B08	0-2



## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100826-1

**Login Number: 100826**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3,3.6,3.0,4.0,3.3,3.1,2.7,2.5,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100833-1

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/17/2015 4:34:18 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Job ID: 500-100833-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100833-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 2.3° C, 2.5° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.3° C, 3.6° C and 4.0° C.

#### Receipt Exceptions

The COC has a collection time of 2115 for lab sample 32, where as the bottle has 0215, logged per bottle.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: 2618-7-B53 (0-2) (500-100833-11), 2618-7-B100 (0-2) (500-100833-28), 2618-7-B106 (0-2) (500-100833-34) and 2618-7-B109 (0-2) (500-100833-37). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: 2618-7-B47 (0-2) (500-100833-4). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: 2618-7-B53 (0-2) (500-100833-11) and 2618-7-B109 (0-2) (500-100833-37). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The method blank for preparation batch 500-303362 and analytical batch 500-303498 contained Chromium above the reporting limit (RL). Associated samples 2618-7-B45 (0-6) (500-100833-1), 2618-7-B45 (6-13) (500-100833-2), 2618-7-B46 (0-2) (500-100833-3), 2618-7-B47 (0-2) (500-100833-4), 2618-7-B48 (0-2) (500-100833-5), 2618-7-B49 (0-2) (500-100833-6), 2618-7-B50 (0-2) (500-100833-7), 2618-7-B50 DUP (0-2) (500-100833-8), 2618-7-B51 (0-2) (500-100833-9), 2618-7-B52 (0-2) (500-100833-10), 2618-7-B53 (0-2) (500-100833-11), 2618-7-B54 (0-2) (500-100833-12), 2618-7-B55 (0-2) (500-100833-13), 2618-7-B56 (0-2) (500-100833-14), 2618-7-B88 (0-2) (500-100833-15), 2618-7-B89 (0-2) (500-100833-16), 2618-7-B90 (0-2) (500-100833-17), 2618-7-B91 (0-2) (500-100833-18), 2618-7-B92 (0-2) (500-100833-19) and 2618-7-B93 (0-2) (500-100833-20) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The following samples were diluted to bring the concentration of target and non-target analytes within the calibration range: 2618-7-B45 (6-13) (500-100833-2). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The method blank for preparation batch 500-303585 and analytical batch 500-303871 contained Zinc above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The method blank for preparation batch 500-303585 and analytical batch 500-304083 contained Zinc above the reporting limit (RL). Associated samples 2618-7-B96 (0-2) (500-100833-24), 2618-7-B97 (0-2) (500-100833-25), 2618-7-B98 (0-2) (500-100833-26), 2618-7-B99 (0-2) (500-100833-27), 2618-7-B100 (0-2) (500-100833-28), 2618-7-B101 (0-2) (500-100833-29), 2618-7-B102 (0-2) (500-100833-30), 2618-7-B103 (0-2) (500-100833-31), 2618-7-B104 (0-2) (500-100833-32), 2618-7-B105 (0-2) (500-100833-33) and 2618-7-B106 (0-2) (500-100833-34) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

## Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

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### Job ID: 500-100833-1 (Continued)

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#### Laboratory: TestAmerica Chicago (Continued)

Method(s) 6010B: The method blank for preparation batch 500-304198 and 500-304419 contained Lead above the reporting limit (RL). Samples associated with this method blank had results below the reporting RL; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 6010B: The method blank for preparation batch 500-304198, 500-304205 and 500-304419 and analytical batch 500-304563 contained Calcium above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.54	J F1	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1	F1	0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	74000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J F1	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Silver	0.078	J	0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.46	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	34	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	180	F1	55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.096	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	580	B	25	5.0	mg/L	10		6010B	TCLP
Magnesium	58		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.45		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.015	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.26	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	71	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	31		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.047		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	28	F1 B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13	F1 B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.93	F1 B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.71		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		2.7	1.2	mg/Kg	5	☼	6010B	Total/NA
Barium	17		2.7	0.49	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.36	J	1.1	0.23	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.23	J	0.54	0.16	mg/Kg	5	☼	6010B	Total/NA
Chromium	10	B	2.7	0.46	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (6-13) (Continued)**

**Lab Sample ID: 500-100833-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	6.8		1.4	0.31	mg/Kg	5	☼	6010B	Total/NA
Copper	16		2.7	0.59	mg/Kg	5	☼	6010B	Total/NA
Iron	13000	B	54	21	mg/Kg	5	☼	6010B	Total/NA
Lead	8.2		1.4	0.67	mg/Kg	5	☼	6010B	Total/NA
Magnesium	79000		27	11	mg/Kg	5	☼	6010B	Total/NA
Calcium	140000	B	54	17	mg/Kg	5	☼	6010B	Total/NA
Manganese	410	B	2.7	0.54	mg/Kg	5	☼	6010B	Total/NA
Nickel	17	B	2.7	0.73	mg/Kg	5	☼	6010B	Total/NA
Selenium	1.3	J	2.7	1.3	mg/Kg	5	☼	6010B	Total/NA
Vanadium	12		1.4	0.39	mg/Kg	5	☼	6010B	Total/NA
Zinc	36	B	5.4	1.7	mg/Kg	5	☼	6010B	Total/NA
Potassium	2300		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	840	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.65		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	360		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.96	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.029	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.018	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.16	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	39	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.045		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	33		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.033		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	26	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	12	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.046		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.60		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0062	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0073	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0090	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B46 (0-2) (Continued)**

**Lab Sample ID: 500-100833-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.81		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.75		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Silver	0.12	J	0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.62		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	35	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	4200		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1100	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	290		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.048	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.67	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0071		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	53	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.054		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	48	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.29	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0031		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.025		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.13		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.63	J	1.3	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B47 (0-2) (Continued)**

**Lab Sample ID: 500-100833-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	7.2		0.63	0.29	mg/Kg	1		☼	6010B	Total/NA
Barium	95		0.63	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.98		0.25	0.054	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.25		0.13	0.036	mg/Kg	1		☼	6010B	Total/NA
Chromium	28	B	0.63	0.11	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.31	0.071	mg/Kg	1		☼	6010B	Total/NA
Copper	26		0.63	0.14	mg/Kg	1		☼	6010B	Total/NA
Iron	26000	B	13	4.8	mg/Kg	1		☼	6010B	Total/NA
Lead	12		0.31	0.16	mg/Kg	1		☼	6010B	Total/NA
Magnesium	9200		6.3	2.5	mg/Kg	1		☼	6010B	Total/NA
Calcium	6900	B	13	4.0	mg/Kg	1		☼	6010B	Total/NA
Manganese	680		0.63	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	41	B	0.63	0.17	mg/Kg	1		☼	6010B	Total/NA
Selenium	1.1		0.63	0.31	mg/Kg	1		☼	6010B	Total/NA
Silver	0.16	J	0.31	0.073	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.6		0.63	0.31	mg/Kg	1		☼	6010B	Total/NA
Vanadium	25		0.31	0.091	mg/Kg	1		☼	6010B	Total/NA
Zinc	51	B	1.3	0.40	mg/Kg	1		☼	6010B	Total/NA
Potassium	3400		31	5.1	mg/Kg	1		☼	6010B	Total/NA
Sodium	1300		63	8.3	mg/Kg	1		☼	6010B	Total/NA
Arsenic	0.010	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.55		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	350		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	190		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.027	J	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.17	B	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.041	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.59	B	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0063		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	25	B	6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.034		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.047		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	34	B	2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.63		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	26	B	2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.27	J B	0.50	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.026		0.020	0.0068	mg/Kg	1		☼	7471B	Total/NA
pH	8.32		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B48 (0-2)**

**Lab Sample ID: 500-100833-5**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B48 (0-2) (Continued)**

**Lab Sample ID: 500-100833-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	83000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.70		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.73		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	39	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	4600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1500	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	280		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.21	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	45	B	6.0	0.50	mg/L	1		6010B	SPLP East
Iron	4.1		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.0081		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	17	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.086		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.2	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.052	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.028		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B49 (0-2)**

**Lab Sample ID: 500-100833-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.035	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.26		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.31		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.59		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.17		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.23		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.32		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B49 (0-2) (Continued)**

**Lab Sample ID: 500-100833-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.037	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.54		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA	
Fluorene	0.0085	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.18		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.19		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.59		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.46	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	6.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA	
Barium	71		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.83		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.34		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA	
Chromium	22	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	9.9		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA	
Copper	24		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA	
Iron	20000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA	
Lead	22		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	12000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA	
Calcium	18000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA	
Manganese	250		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA	
Nickel	23	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA	
Selenium	1.1		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA	
Thallium	0.79		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	28		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA	
Zinc	53	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA	
Potassium	3200		30	4.9	mg/Kg	1	☼	6010B	Total/NA	
Sodium	2600		60	7.9	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP	
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP	
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP	
Calcium	290		2.5	0.50	mg/L	1		6010B	TCLP	
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP	
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	5.6		2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.27	B	0.10	0.020	mg/L	1		6010B	TCLP	
Arsenic	0.070		0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.75	B	0.50	0.050	mg/L	1		6010B	SPLP East	
Beryllium	0.0087		0.0040	0.0040	mg/L	1		6010B	SPLP East	
Calcium	36	B	6.0	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.089		0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.22		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	35	B	2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.21		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	35	B	2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B49 (0-2) (Continued)

## Lab Sample ID: 500-100833-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.64	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0042		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.0081	J	0.018	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B50 (0-2)

## Lab Sample ID: 500-100833-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.029	J	0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.16		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.53		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.50		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.78		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.18		0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.35		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J	0.20	0.071	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.53		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.049		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.0		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.043		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.20		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0093	J	0.039	0.0071	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0087	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.50		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.4		0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.31	J	1.1	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.5		0.56	0.26	mg/Kg	1	✳	6010B	Total/NA
Barium	35		0.56	0.10	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.60		0.23	0.049	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21		0.11	0.033	mg/Kg	1	✳	6010B	Total/NA
Chromium	14	B	0.56	0.097	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.5		0.28	0.064	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1	✳	6010B	Total/NA
Iron	16000	B	11	4.4	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	33000		5.6	2.3	mg/Kg	1	✳	6010B	Total/NA
Calcium	53000	B	11	3.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	230		0.56	0.11	mg/Kg	1	✳	6010B	Total/NA
Nickel	17	B	0.56	0.15	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.75		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Silver	0.069	J	0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.59		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	✳	6010B	Total/NA
Zinc	45	B	1.1	0.36	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200		28	4.6	mg/Kg	1	✳	6010B	Total/NA
Sodium	2000		56	7.4	mg/Kg	1	✳	6010B	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	460		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 (0-2) (Continued)**

**Lab Sample ID: 500-100833-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	88		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.065		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.18	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.071		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.59	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0081		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	51	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	45	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.53	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0038		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.95		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0087	J	0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.048		0.037	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.19		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.30		0.037	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.072		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.019	J	0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.35		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.083		0.037	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.33		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B50 DUP (0-2) (Continued)

## Lab Sample ID: 500-100833-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	570		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	38	B	1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460	B	2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.21		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	87		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.038	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.48	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0048		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	53	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	90		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.092		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	20	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.30	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.018	J	0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.91		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B51 (0-2)

## Lab Sample ID: 500-100833-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.012	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.055		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.060		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.098		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.041		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.092	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.065		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B51 (0-2) (Continued)**

**Lab Sample ID: 500-100833-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.065		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.24	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	42		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	56000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.49	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	44	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	410		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.38		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.16	B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.19	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	30	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	7.8		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.087		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.2	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.6	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.50		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.94	J	1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	23		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B52 (0-2) (Continued)**

**Lab Sample ID: 500-100833-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	78		0.62	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	1.1		0.25	0.054	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.26		0.12	0.036	mg/Kg	1		☼	6010B	Total/NA
Chromium	→ 28	B	0.62	0.11	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.31	0.070	mg/Kg	1		☼	6010B	Total/NA
Copper	30		0.62	0.14	mg/Kg	1		☼	6010B	Total/NA
Iron	40000	B	12	4.8	mg/Kg	1		☼	6010B	Total/NA
Lead	18		0.31	0.16	mg/Kg	1		☼	6010B	Total/NA
Magnesium	4800		6.2	2.5	mg/Kg	1		☼	6010B	Total/NA
Calcium	2400	B	12	4.0	mg/Kg	1		☼	6010B	Total/NA
Manganese	480		0.62	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	35	B	0.62	0.17	mg/Kg	1		☼	6010B	Total/NA
Selenium	2.1		0.62	0.31	mg/Kg	1		☼	6010B	Total/NA
Silver	0.12	J	0.31	0.073	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.6		0.62	0.31	mg/Kg	1		☼	6010B	Total/NA
Vanadium	36		0.31	0.091	mg/Kg	1		☼	6010B	Total/NA
Zinc	68	B	1.2	0.39	mg/Kg	1		☼	6010B	Total/NA
Potassium	3200		31	5.1	mg/Kg	1		☼	6010B	Total/NA
Sodium	2100		62	8.2	mg/Kg	1		☼	6010B	Total/NA
Arsenic	0.012	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	44		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.25		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	12		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.094		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	1.1	B	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.16		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	1.1	B	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.012		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	26	B	6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.29		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.081		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	370		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.14		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	51	B	2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.37		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	37	B	2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.80	B	0.50	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0067		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.040		0.019	0.0067	mg/Kg	1		☼	7471B	Total/NA
pH	7.94		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B53 (0-2) (Continued)**

**Lab Sample ID: 500-100833-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.11	J	0.21	0.028	mg/Kg	5	☼	8270D	Total/NA
Chrysene	0.13	J	0.21	0.057	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	0.17	J	0.21	0.039	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	0.12	J	0.21	0.029	mg/Kg	5	☼	8270D	Total/NA
Pyrene	0.37		0.21	0.042	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.50	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7700		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	630		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.3		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.073	J	0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.71		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	54	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0049	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		2.5	0.50	mg/L	1		6010B	TCLP
Lead	0.038		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.081	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.050		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.71	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0063		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	28	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.64		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	32	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.76	B	0.50	0.020	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B53 (0-2) (Continued)

## Lab Sample ID: 500-100833-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.0030		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.045		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.48		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B54 (0-2)

## Lab Sample ID: 500-100833-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.024	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.082		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.081		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.036	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.056		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0080	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.039	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.10		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.21		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.71		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.62	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	34000	B	12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	880		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25	B	0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.32		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	74	B	1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	2800		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.64	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B54 (0-2) (Continued)

## Lab Sample ID: 500-100833-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.87	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	32	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.089		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	270		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.52		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	45	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	38	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.91	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0055		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.046		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.62		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B55 (0-2)

## Lab Sample ID: 500-100833-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.31	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25	B	0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	37	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.057		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0082		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	250		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B55 (0-2) (Continued)

## Lab Sample ID: 500-100833-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.077		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.61	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0086		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	87	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.050		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	68	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.85		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	42	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.45	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0039		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.66		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B56 (0-2)

## Lab Sample ID: 500-100833-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0086	J	0.042	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.6		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	1800	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	29	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.091	J	0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	92		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B56 (0-2) (Continued)**

**Lab Sample ID: 500-100833-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.95	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.12		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.5	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	26	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.060		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	290		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	44	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	31	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.72	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0054		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.049		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.92		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.021	0.0040	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.018	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.14		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.24		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.063		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.098		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.23		0.20	0.071	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.075	J	0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.018	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.27		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.070		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.10		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.27		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B88 (0-2) (Continued)**

**Lab Sample ID: 500-100833-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	21000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	45000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.70		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	46	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0055		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	710	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.057		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.4		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	200		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.81	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.086		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.82	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0077		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	57	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.086		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.44		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.56	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0039		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.029		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	9.00		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B89 (0-2)**

**Lab Sample ID: 500-100833-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.017	0.0033	mg/Kg	1	☼	8260B	Total/NA
Fluoranthene	0.011	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B89 (0-2) (Continued)**

**Lab Sample ID: 500-100833-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	48000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.78		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.74		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	43	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.2		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.13		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.1	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.012		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	61	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.41		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	330		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	61	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	4.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	42	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.82	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0059		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.035		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	9.08		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B90 (0-2)**

**Lab Sample ID: 500-100833-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.54	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.54	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.7		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B90 (0-2) (Continued)**

**Lab Sample ID: 500-100833-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Silver	0.074	J	0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.78		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	43	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0046	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1100	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.056		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	270		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.38		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.79	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0098		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	86	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.090		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	69	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	45	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.67	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0050		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.022		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.46	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.9		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B91 (0-2) (Continued)**

**Lab Sample ID: 500-100833-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	16	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.7		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	74000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.079	J	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.77		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	39	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	720	B	25	5.0	mg/L	10		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.082	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.032	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.47	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	64	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.074		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	64		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	29	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	15	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.086		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.28	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.026		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.38		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B92 (0-2) (Continued)**

**Lab Sample ID: 500-100833-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.6		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20	B	0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.71		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	33	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1100		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	300		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.22		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.048	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.38	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0050		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	87	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.065		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	47	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.56		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	29	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.32	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0026		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.40		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.026	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0086	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B93 (0-2) (Continued)

## Lab Sample ID: 500-100833-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	19	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.9		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.090	J	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.84		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	39	B	1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3900		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	810		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0048	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1300	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.080		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.32		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	260		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.081	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	14	B	6.0	0.50	mg/L	1		6010B	SPLP East
Iron	2.9		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	4.5	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.8	B	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.026		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.17		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B94 (0-2)

## Lab Sample ID: 500-100833-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.54	J F1	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14	F1	0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	17	F1	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B94 (0-2) (Continued)

## Lab Sample ID: 500-100833-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	33000	F2	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	510		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31	F1	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4	F1	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	45	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	3500		560	74	mg/Kg	10	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	870		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	290		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Vanadium	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.099		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.66		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0091		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	81		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	220		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	64		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.99		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.72		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0051		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.029		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.62		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B95 (0-2)

## Lab Sample ID: 500-100833-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.41	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.6		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 (0-2) (Continued)**

**Lab Sample ID: 500-100833-22**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	43000		5.5	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	44	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	3400		550	73	mg/Kg	10	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	940		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	250		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.080	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.10		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.61		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0094		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	81		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.072		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	240		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	67		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.63		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0042		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.13		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.010	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0088	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.016	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.5		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 DUP (0-2) (Continued)**

**Lab Sample ID: 500-100833-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.35		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	47000		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	4300		540	71	mg/Kg	10	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	850		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.096	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.10		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.54		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0084		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	66		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	59		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.62		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0045		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.038		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.012	J	0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0076	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.0		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B96 (0-2) (Continued)**

**Lab Sample ID: 500-100833-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	37		0.53	0.097	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.60		0.21	0.046	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.25		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.53	0.091	mg/Kg	1		☼	6010B	Total/NA
Cobalt	13		0.26	0.060	mg/Kg	1		☼	6010B	Total/NA
Copper	22		0.53	0.11	mg/Kg	1		☼	6010B	Total/NA
Iron	17000	B	11	4.1	mg/Kg	1		☼	6010B	Total/NA
Lead	16		0.26	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	39000		5.3	2.1	mg/Kg	1		☼	6010B	Total/NA
Calcium	92000		110	34	mg/Kg	10		☼	6010B	Total/NA
Manganese	410		0.53	0.10	mg/Kg	1		☼	6010B	Total/NA
Nickel	31		0.53	0.14	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.31	J	0.53	0.26	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.29	J	0.53	0.26	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.26	0.077	mg/Kg	1		☼	6010B	Total/NA
Zinc	58	B	1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	2500		26	4.3	mg/Kg	1		☼	6010B	Total/NA
Sodium	2300		53	7.0	mg/Kg	1		☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	850		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.045		0.025	0.010	mg/L	1			6010B	TCLP
Iron	1.8		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	250		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	7.1		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.12		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.77		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0084		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	91		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.33		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	70		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	3.0		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.32		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.73		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0044		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.035		0.017	0.0060	mg/Kg	1		☼	7471B	Total/NA
pH	8.75		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B97 (0-2) (Continued)**

**Lab Sample ID: 500-100833-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	61	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	260		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.064	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.040	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	36		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	82		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.039		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.087		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.26		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.036		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.38		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0078	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2) (Continued)**

**Lab Sample ID: 500-100833-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoranthene	0.011	J	0.038	0.0071	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.011	J	0.038	0.0076	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.26	J	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.4		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	55		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.70		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.24		0.11	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	19		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	19000	B	11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	33		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	26000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	79000		110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	300		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	30		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	63	B	1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2400		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	1200		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1200		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.041		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.21		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.056		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.55		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0049		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	86		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.039		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.097		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	43		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.76		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.39		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.032		0.017	0.0061	mg/Kg	1		☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B99 (0-2) (Continued)**

**Lab Sample ID: 500-100833-27**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.014	J	0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.62	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.83		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	27000		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	1200		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.49	J	0.62	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	75	B	1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	3400		62	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260	B	2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.34		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.064		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.60		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0051		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.060		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.37		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.044		0.020	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	8.08		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.039		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.043		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.079		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.058		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2,4-Dinitrotoluene	0.097	J	0.19	0.061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.067		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0063	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	48000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	70	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0049	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	740		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.072		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	21		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.081		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	200		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.084		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.067		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.60		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0057		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.062		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B100 (0-2) (Continued)

## Lab Sample ID: 500-100833-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.29		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.49		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.038		0.019	0.0067	mg/Kg	1	*	7471B	Total/NA
pH	8.52		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B101 (0-2)

## Lab Sample ID: 500-100833-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.38	J	1.2	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	8.7		0.59	0.27	mg/Kg	1	*	6010B	Total/NA
Barium	74		0.59	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.78		0.23	0.051	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.22		0.12	0.034	mg/Kg	1	*	6010B	Total/NA
Chromium	18		0.59	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	*	6010B	Total/NA
Copper	24		0.59	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	22000	B	12	4.5	mg/Kg	1	*	6010B	Total/NA
Lead	20		0.29	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	14000		5.9	2.4	mg/Kg	1	*	6010B	Total/NA
Calcium	27000		12	3.8	mg/Kg	1	*	6010B	Total/NA
Manganese	370		0.59	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	34		0.59	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.40	J	0.59	0.29	mg/Kg	1	*	6010B	Total/NA
Vanadium	25		0.29	0.086	mg/Kg	1	*	6010B	Total/NA
Zinc	74	B	1.2	0.37	mg/Kg	1	*	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	*	6010B	Total/NA
Sodium	2800		59	7.8	mg/Kg	1	*	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	810		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Iron	5.8		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.019		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	220		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.089	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.97		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0083		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	50		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B101 (0-2) (Continued)

## Lab Sample ID: 500-100833-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	41		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.55		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.028		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.50		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B102 (0-2)

## Lab Sample ID: 500-100833-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	72	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410	B	2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.095	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.093		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.69		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0064		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B102 (0-2) (Continued)

## Lab Sample ID: 500-100833-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	32	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	25	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	2.1		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0034		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.037		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.50		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B103 (0-2)

## Lab Sample ID: 500-100833-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	620		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.48	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	58	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	1000	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	480	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.0	B F1	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.091		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.69		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0086		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	41		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B103 (0-2) (Continued)

## Lab Sample ID: 500-100833-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.098		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	56		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.83		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.55		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.027		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.80		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B104 (0-2)

## Lab Sample ID: 500-100833-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	460		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	49	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1300	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	200	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.043	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.038	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B104 (0-2) (Continued)

## Lab Sample ID: 500-100833-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0049		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	70		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.057		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.36		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018		0.018	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B105 (0-2)

## Lab Sample ID: 500-100833-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.35	J	1.1	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.5		0.57	0.26	mg/Kg	1	✳	6010B	Total/NA
Barium	62		0.57	0.10	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.81		0.23	0.049	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.23		0.11	0.033	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.57	0.098	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.28	0.064	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	11	4.4	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.7	2.3	mg/Kg	1	✳	6010B	Total/NA
Calcium	67000		110	37	mg/Kg	10	✳	6010B	Total/NA
Manganese	440		0.57	0.11	mg/Kg	1	✳	6010B	Total/NA
Nickel	37		0.57	0.15	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.51	J	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.28	0.083	mg/Kg	1	✳	6010B	Total/NA
Zinc	64	B	1.1	0.36	mg/Kg	1	✳	6010B	Total/NA
Potassium	3100		28	4.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	2200		57	7.5	mg/Kg	1	✳	6010B	Total/NA
Arsenic	0.012	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	950	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.8		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.0093		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	310	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B105 (0-2) (Continued)

## Lab Sample ID: 500-100833-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	2.8	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.097		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.88		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0086		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	46		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.54		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0047		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.027		0.019	0.0065	mg/Kg	1	✳	7471B	Total/NA
pH	8.26		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B106 (0-2)

## Lab Sample ID: 500-100833-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0077	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.010	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.011	J	0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0062	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.020	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.9		0.58	0.27	mg/Kg	1	✳	6010B	Total/NA
Barium	81		0.58	0.11	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.0		0.23	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.24		0.12	0.034	mg/Kg	1	✳	6010B	Total/NA
Chromium	24		0.58	0.10	mg/Kg	1	✳	6010B	Total/NA
Cobalt	17		0.29	0.066	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.58	0.13	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	12	4.5	mg/Kg	1	✳	6010B	Total/NA
Lead	31		0.29	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	10000		5.8	2.4	mg/Kg	1	✳	6010B	Total/NA
Calcium	11000		12	3.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	280		0.58	0.12	mg/Kg	1	✳	6010B	Total/NA
Nickel	42		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.51	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	30		0.29	0.085	mg/Kg	1	✳	6010B	Total/NA
Zinc	74	B	1.2	0.37	mg/Kg	1	✳	6010B	Total/NA
Potassium	3300		29	4.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	2800		58	7.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	900	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.059		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B106 (0-2) (Continued)**

**Lab Sample ID: 500-100833-34**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.8		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.038		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	290	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	15		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.050	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.082		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.80		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0079		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.088		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.22		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.53		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0039		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.038		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.41		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.016	J	0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0090	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.9		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	95		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.41		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	35000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.61	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.86		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	68	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		30	5.0	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B107 (0-2) (Continued)**

**Lab Sample ID: 500-100833-35**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	3000		61	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230	B	2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	88	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	9.8	B	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.61	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.59		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0049		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.095		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.32		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0023		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.039		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	7.70		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.86		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	1.6		0.48	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.042	J	0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	0.85		0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.52		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	2.3		0.48	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	1600	B	9.7	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	0.73		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		4.8	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000		9.7	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	52		0.48	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	1.1		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Vanadium	2.5		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	15	B	0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	90		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	52		48	6.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	510	B	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B108 (0-2) (Continued)

## Lab Sample ID: 500-100833-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	50	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.90	B	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	B	0.10	0.020	mg/L	1		6010B	TCLP
Calcium	9.0		2.5	0.50	mg/L	1		6010B	SPLP East
Magnesium	2.9		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.11		0.10	0.020	mg/L	1		6010B	SPLP East
pH	8.88		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B109 (0-2)

## Lab Sample ID: 500-100833-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.041	J	0.18	0.033	mg/Kg	5	☼	8270D	Total/NA
Anthracene	0.15	J	0.18	0.030	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.18	0.024	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.18	0.035	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.18	0.039	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.12	J	0.18	0.053	mg/Kg	5	☼	8270D	Total/NA
Chrysene	0.25		0.18	0.049	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	0.39		0.18	0.034	mg/Kg	5	☼	8270D	Total/NA
Fluorene	0.077	J	0.18	0.025	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11	J	0.18	0.047	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	0.42		0.18	0.025	mg/Kg	5	☼	8270D	Total/NA
Pyrene	0.93		0.18	0.036	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.31	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	46		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	44000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	440		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	55	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.070		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B109 (0-2) (Continued)

## Lab Sample ID: 500-100833-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	340	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.055		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.98	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.063		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.64		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0066		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	92		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.28		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	59		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.45		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0026		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.020		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.40		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B110 (0-2)

## Lab Sample ID: 500-100833-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0086	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0095	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.5		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	44000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	50	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200	B	25	5.0	mg/L	10		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Client Sample ID: 2618-7-B110 (0-2) (Continued)

## Lab Sample ID: 500-100833-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.6		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	260	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.050	J B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.088	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	5.6		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.0097		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	8.3		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.13		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.93		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B110 DUP (0-2)

## Lab Sample ID: 500-100833-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0081	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	98000		110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	49	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1100	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 DUP (0-2) (Continued)**

**Lab Sample ID: 500-100833-39**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.6		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	310	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	61		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.027		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	12		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.038		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.73		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	7.0		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.072	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.040		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.03		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.39	J	1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.83		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.62	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	29000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6100		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	5500		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	720		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.31	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	36		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.2	0.40	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	130	B	2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.0084		0.0075	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B111 (0-2) (Continued)**

**Lab Sample ID: 500-100833-40**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	58	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13	B	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J B	2.5	0.50	mg/L	1		6010B	TCLP
Arsenic	0.056		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.77		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0051		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.065		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.32		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0023		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.058		0.021	0.0074	mg/Kg	1	☆	7471B	Total/NA
pH	7.70		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100833-1	2618-7-B45 (0-6)	Solid	09/03/15 11:20	09/04/15 09:30
500-100833-2	2618-7-B45 (6-13)	Solid	09/03/15 11:25	09/04/15 09:30
500-100833-3	2618-7-B46 (0-2)	Solid	09/03/15 11:10	09/04/15 09:30
500-100833-4	2618-7-B47 (0-2)	Solid	09/03/15 10:55	09/04/15 09:30
500-100833-5	2618-7-B48 (0-2)	Solid	09/03/15 10:45	09/04/15 09:30
500-100833-6	2618-7-B49 (0-2)	Solid	09/03/15 10:30	09/04/15 09:30
500-100833-7	2618-7-B50 (0-2)	Solid	09/03/15 10:15	09/04/15 09:30
500-100833-8	2618-7-B50 DUP (0-2)	Solid	09/03/15 10:20	09/04/15 09:30
500-100833-9	2618-7-B51 (0-2)	Solid	09/03/15 10:00	09/04/15 09:30
500-100833-10	2618-7-B52 (0-2)	Solid	09/03/15 09:50	09/04/15 09:30
500-100833-11	2618-7-B53 (0-2)	Solid	09/03/15 09:35	09/04/15 09:30
500-100833-12	2618-7-B54 (0-2)	Solid	09/03/15 09:25	09/04/15 09:30
500-100833-13	2618-7-B55 (0-2)	Solid	09/03/15 09:15	09/04/15 09:30
500-100833-14	2618-7-B56 (0-2)	Solid	09/03/15 09:05	09/04/15 09:30
500-100833-15	2618-7-B88 (0-2)	Solid	09/03/15 17:40	09/04/15 09:30
500-100833-16	2618-7-B89 (0-2)	Solid	09/03/15 17:30	09/04/15 09:30
500-100833-17	2618-7-B90 (0-2)	Solid	09/03/15 17:20	09/04/15 09:30
500-100833-18	2618-7-B91 (0-2)	Solid	09/03/15 17:10	09/04/15 09:30
500-100833-19	2618-7-B92 (0-2)	Solid	09/03/15 16:55	09/04/15 09:30
500-100833-20	2618-7-B93 (0-2)	Solid	09/03/15 16:45	09/04/15 09:30
500-100833-21	2618-7-B94 (0-2)	Solid	09/03/15 16:35	09/04/15 09:30
500-100833-22	2618-7-B95 (0-2)	Solid	09/03/15 16:20	09/04/15 09:30
500-100833-23	2618-7-B95 DUP (0-2)	Solid	09/03/15 16:25	09/04/15 09:30
500-100833-24	2618-7-B96 (0-2)	Solid	09/03/15 16:10	09/04/15 09:30
500-100833-25	2618-7-B97 (0-2)	Solid	09/03/15 15:30	09/04/15 09:30
500-100833-26	2618-7-B98 (0-2)	Solid	09/03/15 15:20	09/04/15 09:30
500-100833-27	2618-7-B99 (0-2)	Solid	09/03/15 15:05	09/04/15 09:30
500-100833-28	2618-7-B100 (0-2)	Solid	09/03/15 14:55	09/04/15 09:30
500-100833-29	2618-7-B101 (0-2)	Solid	09/03/15 14:45	09/04/15 09:30
500-100833-30	2618-7-B102 (0-2)	Solid	09/03/15 14:35	09/04/15 09:30
500-100833-31	2618-7-B103 (0-2)	Solid	09/03/15 14:25	09/04/15 09:30
500-100833-32	2618-7-B104 (0-2)	Solid	09/03/15 14:15	09/04/15 09:30
500-100833-33	2618-7-B105 (0-2)	Solid	09/03/15 14:05	09/04/15 09:30
500-100833-34	2618-7-B106 (0-2)	Solid	09/03/15 13:55	09/04/15 09:30
500-100833-35	2618-7-B107 (0-2)	Solid	09/03/15 13:45	09/04/15 09:30
500-100833-36	2618-7-B108 (0-2)	Solid	09/03/15 13:35	09/04/15 09:30
500-100833-37	2618-7-B109 (0-2)	Solid	09/03/15 13:25	09/04/15 09:30
500-100833-38	2618-7-B110 (0-2)	Solid	09/03/15 13:05	09/04/15 09:30
500-100833-39	2618-7-B110 DUP (0-2)	Solid	09/03/15 13:10	09/04/15 09:30
500-100833-40	2618-7-B111 (0-2)	Solid	09/03/15 13:00	09/04/15 09:30

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

**Date Collected: 09/03/15 11:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/09/15 10:38	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 10:38	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/09/15 10:38	1
Toluene-d8 (Surr)	110		75 - 122	09/04/15 14:10	09/09/15 10:38	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

**Date Collected: 09/03/15 11:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Benzo[g,h,i]perylene	<0.038	F1	0.038	0.012	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Bis(2-chloroethyl)ether	<0.19	F2	0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,4-Dinitrophenol	<0.77	F1	0.77	0.67	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

**Date Collected: 09/03/15 11:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Pentachlorophenol	<0.77	F1	0.77	0.61	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/10/15 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	09/09/15 07:26	09/10/15 23:16	1
2-Fluorophenol	81		25 - 110	09/09/15 07:26	09/10/15 23:16	1
Nitrobenzene-d5	79		25 - 115	09/09/15 07:26	09/10/15 23:16	1
Phenol-d5	77		31 - 110	09/09/15 07:26	09/10/15 23:16	1
Terphenyl-d14	79		36 - 134	09/09/15 07:26	09/10/15 23:16	1
2,4,6-Tribromophenol	68		35 - 137	09/09/15 07:26	09/10/15 23:16	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.54</b>	<b>J F1</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Arsenic</b>	<b>5.7</b>		0.55	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Barium</b>	<b>37</b>		0.55	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Beryllium</b>	<b>0.64</b>		0.22	0.047	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.032	mg/Kg	☼	09/08/15 12:00	09/10/15 01:21	1
<b>Chromium</b>	<b>21</b>	<b>B</b>	0.55	0.094	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Cobalt</b>	<b>9.1</b>	<b>F1</b>	0.27	0.062	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Copper</b>	<b>17</b>		0.55	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Lead</b>	<b>8.5</b>		0.27	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Magnesium</b>	<b>34000</b>		5.5	2.2	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Calcium</b>	<b>74000</b>	<b>B</b>	110	35	mg/Kg	☼	09/08/15 12:00	09/10/15 01:45	10
<b>Manganese</b>	<b>360</b>		0.55	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Selenium</b>	<b>0.54</b>	<b>J F1</b>	0.55	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Silver</b>	<b>0.078</b>	<b>J</b>	0.27	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Thallium</b>	<b>0.46</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Vanadium</b>	<b>18</b>		0.27	0.080	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Zinc</b>	<b>34</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Potassium</b>	<b>3400</b>		27	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1
<b>Sodium</b>	<b>180</b>	<b>F1</b>	55	7.2	mg/Kg	☼	09/08/15 12:00	09/09/15 03:41	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
<b>Barium</b>	<b>0.096</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 12:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 12:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 12:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

Date Collected: 09/03/15 11:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.4

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>580</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 17:58	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 12:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 12:50	1
<b>Magnesium</b>	<b>58</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:50	1
<b>Manganese</b>	<b>0.45</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
Potassium	<2.5		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 12:50	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:50	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 12:50	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Barium</b>	<b>0.26</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 20:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Calcium</b>	<b>71</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Chromium</b>	<b>0.043</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Copper</b>	<b>0.042</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Iron</b>	<b>31</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Lead</b>	<b>0.047</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Magnesium</b>	<b>28</b>	<b>F1 B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Nickel</b>	<b>0.038</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Potassium</b>	<b>13</b>	<b>F1 B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 20:41	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Vanadium</b>	<b>0.052</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:41	1
<b>Zinc</b>	<b>0.93</b>	<b>F1 B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 20:41	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:06	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:07	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

Date Collected: 09/03/15 11:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:17	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0062	mg/Kg	☼	09/10/15 15:00	09/11/15 14:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	09/09/15 21:40	09/09/15 23:43	1
pH	8.71		0.200	0.200	SU			09/10/15 16:41	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/09/15 11:04	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 11:04	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 14:10	09/09/15 11:04	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 11:04	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0064	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Fluoranthene	<0.036		0.036	0.0066	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
Pyrene	<0.036		0.036	0.0071	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 07:26	09/11/15 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/09/15 07:26	09/11/15 22:54	1
2-Fluorophenol	85		25 - 110	09/09/15 07:26	09/11/15 22:54	1
Nitrobenzene-d5	74		25 - 115	09/09/15 07:26	09/11/15 22:54	1
Phenol-d5	81		31 - 110	09/09/15 07:26	09/11/15 22:54	1
Terphenyl-d14	82		36 - 134	09/09/15 07:26	09/11/15 22:54	1
2,4,6-Tribromophenol	35		35 - 137	09/09/15 07:26	09/11/15 22:54	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.4		5.4	1.1	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Arsenic</b>	<b>7.3</b>		2.7	1.2	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Barium</b>	<b>17</b>		2.7	0.49	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Beryllium</b>	<b>0.36</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Cadmium</b>	<b>0.23</b>	<b>J</b>	0.54	0.16	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Chromium</b>	<b>10</b>	<b>B</b>	2.7	0.46	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Cobalt</b>	<b>6.8</b>		1.4	0.31	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Copper</b>	<b>16</b>		2.7	0.59	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Iron</b>	<b>13000</b>	<b>B</b>	54	21	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Lead</b>	<b>8.2</b>		1.4	0.67	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Magnesium</b>	<b>79000</b>		27	11	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Calcium</b>	<b>140000</b>	<b>B</b>	54	17	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Manganese</b>	<b>410</b>	<b>B</b>	2.7	0.54	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Nickel</b>	<b>17</b>	<b>B</b>	2.7	0.73	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Selenium</b>	<b>1.3</b>	<b>J</b>	2.7	1.3	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
Silver	<1.4		1.4	0.32	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
Thallium	<2.7		2.7	1.3	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Vanadium</b>	<b>12</b>		1.4	0.39	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Zinc</b>	<b>36</b>	<b>B</b>	5.4	1.7	mg/Kg	☼	09/08/15 12:00	09/10/15 02:12	5
<b>Potassium</b>	<b>2300</b>		27	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 04:31	1
<b>Sodium</b>	<b>170</b>		54	7.1	mg/Kg	☼	09/08/15 12:00	09/09/15 04:31	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Cadmium</b>	<b>0.0040</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>840</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 18:25	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Iron</b>	<b>0.65</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Magnesium</b>	<b>360</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Manganese</b>	<b>3.1</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Potassium</b>	<b>0.96</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:10	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:10	1
<b>Zinc</b>	<b>0.029</b>	<b>J</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:10	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.018</b>	<b>J</b>	0.050	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Barium</b>	<b>0.16</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 21:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 21:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Calcium</b>	<b>39</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Chromium</b>	<b>0.039</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Copper</b>	<b>0.045</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Iron</b>	<b>33</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Lead</b>	<b>0.033</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Magnesium</b>	<b>26</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Manganese</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Potassium</b>	<b>12</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 21:08	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Vanadium</b>	<b>0.046</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:08	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 21:08	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:11	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:11	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:19	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0062	mg/Kg	☼	09/10/15 15:00	09/11/15 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	09/09/15 21:40	09/09/15 23:43	1
pH	8.60		0.200	0.200	SU			09/10/15 16:45	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 87.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Bromodichloromethane	<0.0053		0.0053	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Bromomethane	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Carbon disulfide	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Chlorobenzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,3-Dichloropropane, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/09/15 11:29	1
Dibromofluoromethane	101		75 - 120	09/04/15 14:10	09/09/15 11:29	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 14:10	09/09/15 11:29	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 11:29	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
<b>Benzo[a]anthracene</b>	<b>0.0062</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 87.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
<b>Fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 87.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
<b>Phenanthrene</b>	<b>0.0073</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
<b>Pyrene</b>	<b>0.0090</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119				09/09/15 07:26	09/11/15 23:20	1
2-Fluorophenol	82		25 - 110				09/09/15 07:26	09/11/15 23:20	1
Nitrobenzene-d5	72		25 - 115				09/09/15 07:26	09/11/15 23:20	1
Phenol-d5	79		31 - 110				09/09/15 07:26	09/11/15 23:20	1
Terphenyl-d14	79		36 - 134				09/09/15 07:26	09/11/15 23:20	1
2,4,6-Tribromophenol	75		35 - 137				09/09/15 07:26	09/11/15 23:20	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.41</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Arsenic</b>	<b>5.3</b>		0.55	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Barium</b>	<b>64</b>		0.55	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Beryllium</b>	<b>0.81</b>		0.22	0.048	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.032	mg/Kg	☼	09/08/15 12:00	09/10/15 02:20	1
<b>Chromium</b>	<b>21</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Cobalt</b>	<b>11</b>		0.28	0.062	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Copper</b>	<b>24</b>		0.55	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Lead</b>	<b>10</b>		0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Magnesium</b>	<b>33000</b>		5.5	2.2	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Calcium</b>	<b>73000</b>	<b>B</b>	110	36	mg/Kg	☼	09/08/15 12:00	09/10/15 02:25	10
<b>Manganese</b>	<b>420</b>		0.55	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Nickel</b>	<b>29</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Selenium</b>	<b>0.75</b>		0.55	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Silver</b>	<b>0.12</b>	<b>J</b>	0.28	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Thallium</b>	<b>0.62</b>		0.55	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Vanadium</b>	<b>24</b>		0.28	0.081	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Zinc</b>	<b>35</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Potassium</b>	<b>4200</b>		28	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1
<b>Sodium</b>	<b>1100</b>		55	7.3	mg/Kg	☼	09/08/15 12:00	09/09/15 04:37	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Cadmium</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 87.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1100</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 18:29	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Magnesium</b>	<b>290</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Potassium</b>	<b>1.8</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:15	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:15	1
<b>Zinc</b>	<b>0.17</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:15	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.048</b>	<b>J</b>	0.050	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Barium</b>	<b>0.67</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Beryllium</b>	<b>0.0071</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 21:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Calcium</b>	<b>53</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Cobalt</b>	<b>0.035</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Lead</b>	<b>0.054</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Magnesium</b>	<b>48</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Potassium</b>	<b>32</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 21:15	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:15	1
<b>Zinc</b>	<b>0.29</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 21:15	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:12	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:12	1
<b>Thallium</b>	<b>0.0031</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:12	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:26	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

Date Collected: 09/03/15 11:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 87.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:25	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0058	mg/Kg	☼	09/10/15 15:00	09/11/15 14:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	09/10/15 12:20	09/10/15 14:36	1
pH	9.13		0.200	0.200	SU			09/10/15 16:49	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/09/15 11:54	1
Dibromofluoromethane	104		75 - 120	09/04/15 14:10	09/09/15 11:54	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	09/04/15 14:10	09/09/15 11:54	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/09/15 11:54	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	09/09/15 07:26	09/11/15 23:46	1
2-Fluorophenol	82		25 - 110	09/09/15 07:26	09/11/15 23:46	1
Nitrobenzene-d5	72		25 - 115	09/09/15 07:26	09/11/15 23:46	1
Phenol-d5	80		31 - 110	09/09/15 07:26	09/11/15 23:46	1
Terphenyl-d14	80		36 - 134	09/09/15 07:26	09/11/15 23:46	1
2,4,6-Tribromophenol	32	X	35 - 137	09/09/15 07:26	09/11/15 23:46	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.63</b>	<b>J</b>	1.3	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Arsenic</b>	<b>7.2</b>		0.63	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Barium</b>	<b>95</b>		0.63	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Beryllium</b>	<b>0.98</b>		0.25	0.054	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Cadmium</b>	<b>0.25</b>		0.13	0.036	mg/Kg	☼	09/08/15 12:00	09/10/15 02:29	1
<b>Chromium</b>	<b>28</b>	<b>B</b>	0.63	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Cobalt</b>	<b>11</b>		0.31	0.071	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Copper</b>	<b>26</b>		0.63	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Iron</b>	<b>26000</b>	<b>B</b>	13	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Lead</b>	<b>12</b>		0.31	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Magnesium</b>	<b>9200</b>		6.3	2.5	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Calcium</b>	<b>6900</b>	<b>B</b>	13	4.0	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Manganese</b>	<b>680</b>		0.63	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Nickel</b>	<b>41</b>	<b>B</b>	0.63	0.17	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Selenium</b>	<b>1.1</b>		0.63	0.31	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Silver</b>	<b>0.16</b>	<b>J</b>	0.31	0.073	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Thallium</b>	<b>1.6</b>		0.63	0.31	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Vanadium</b>	<b>25</b>		0.31	0.091	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Zinc</b>	<b>51</b>	<b>B</b>	1.3	0.40	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Potassium</b>	<b>3400</b>		31	5.1	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1
<b>Sodium</b>	<b>1300</b>		63	8.3	mg/Kg	☼	09/08/15 12:00	09/09/15 04:44	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:20	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>350</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:20	1
<b>Magnesium</b>	<b>190</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:20	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
<b>Potassium</b>	<b>1.3</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:20	1
<b>Selenium</b>	<b>0.027</b>	<b>J</b>	0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:20	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:20	1
<b>Zinc</b>	<b>0.17</b>	<b>B</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:20	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.041</b>	<b>J</b>	0.050	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Barium</b>	<b>0.59</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Beryllium</b>	<b>0.0063</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 21:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Calcium</b>	<b>25</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Cobalt</b>	<b>0.034</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Lead</b>	<b>0.047</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Magnesium</b>	<b>34</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Potassium</b>	<b>26</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 21:22	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Vanadium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:22	1
<b>Zinc</b>	<b>0.27</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 21:22	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:13	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:13	1
<b>Thallium</b>	<b>0.0025</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:13	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0068	mg/Kg	☼	09/10/15 15:00	09/11/15 14:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	09/10/15 12:20	09/10/15 14:37	1
pH	8.32		0.200	0.200	SU			09/10/15 16:54	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B48 (0-2)**

**Lab Sample ID: 500-100833-5**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 14:10	09/09/15 15:52	1
Dibromofluoromethane	96		75 - 120	09/04/15 14:10	09/09/15 15:52	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 14:10	09/09/15 15:52	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 14:10	09/09/15 15:52	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B48 (0-2)**

**Lab Sample ID: 500-100833-5**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B48 (0-2)**

**Lab Sample ID: 500-100833-5**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/10/15 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	09/09/15 07:26	09/10/15 23:43	1
2-Fluorophenol	89		25 - 110	09/09/15 07:26	09/10/15 23:43	1
Nitrobenzene-d5	81		25 - 115	09/09/15 07:26	09/10/15 23:43	1
Phenol-d5	81		31 - 110	09/09/15 07:26	09/10/15 23:43	1
Terphenyl-d14	82		36 - 134	09/09/15 07:26	09/10/15 23:43	1
2,4,6-Tribromophenol	74		35 - 137	09/09/15 07:26	09/10/15 23:43	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Arsenic</b>	<b>5.6</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Barium</b>	<b>49</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Beryllium</b>	<b>0.81</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 02:34	1
<b>Chromium</b>	<b>21</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Cobalt</b>	<b>9.4</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Copper</b>	<b>20</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Lead</b>	<b>9.5</b>		0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Magnesium</b>	<b>34000</b>		5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Calcium</b>	<b>83000</b>	<b>B</b>	110	37	mg/Kg	☼	09/08/15 12:00	09/10/15 02:39	10
<b>Manganese</b>	<b>430</b>		0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Nickel</b>	<b>27</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Selenium</b>	<b>0.70</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Thallium</b>	<b>0.73</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Vanadium</b>	<b>23</b>		0.28	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Zinc</b>	<b>39</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Potassium</b>	<b>4600</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1
<b>Sodium</b>	<b>240</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 04:51	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B48 (0-2)**

**Lab Sample ID: 500-100833-5**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1500</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 18:37	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Cobalt</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Magnesium</b>	<b>280</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Manganese</b>	<b>2.9</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Potassium</b>	<b>1.8</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:32	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:32	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:32	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Barium</b>	<b>0.21</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Calcium</b>	<b>45</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
Copper	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Iron</b>	<b>4.1</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Lead</b>	<b>0.0081</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Magnesium</b>	<b>17</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Manganese</b>	<b>0.086</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Potassium</b>	<b>3.2</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 21:28	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Vanadium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:28	1
<b>Zinc</b>	<b>0.052</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 21:28	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:14	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:14	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B48 (0-2)**

**Lab Sample ID: 500-100833-5**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:33	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.028</b>		0.019	0.0066	mg/Kg	☼	09/10/15 15:00	09/11/15 14:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:37	1
pH	<b>8.45</b>		0.200	0.200	SU			09/10/15 16:58	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B49 (0-2)**

**Lab Sample ID: 500-100833-6**

**Date Collected: 09/03/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,3-Dichloropropane, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 14:10	09/09/15 16:17	1
Dibromofluoromethane	97		75 - 120	09/04/15 14:10	09/09/15 16:17	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 14:10	09/09/15 16:17	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 16:17	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Anthracene</b>	<b>0.035</b>	<b>J</b>	0.040	0.0067	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Benzo[a]anthracene</b>	<b>0.26</b>		0.040	0.0054	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B49 (0-2)**

**Lab Sample ID: 500-100833-6**

**Date Collected: 09/03/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.31</b>		0.040	0.0077	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Benzo[b]fluoranthene</b>	<b>0.59</b>		0.040	0.0086	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Benzo[g,h,i]perylene</b>	<b>0.17</b>		0.040	0.013	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Benzo[k]fluoranthene</b>	<b>0.23</b>		0.040	0.012	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Chrysene</b>	<b>0.32</b>		0.040	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Dibenz(a,h)anthracene</b>	<b>0.037 J</b>		0.040	0.0077	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Fluoranthene</b>	<b>0.54</b>		0.040	0.0074	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Fluorene</b>	<b>0.0085 J</b>		0.040	0.0056	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.18</b>		0.040	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B49 (0-2)**

**Lab Sample ID: 500-100833-6**

**Date Collected: 09/03/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Phenanthrene</b>	<b>0.19</b>		0.040	0.0056	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
<b>Pyrene</b>	<b>0.59</b>		0.040	0.0079	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/09/15 07:26	09/12/15 02:49	1
2-Fluorophenol	83		25 - 110	09/09/15 07:26	09/12/15 02:49	1
Nitrobenzene-d5	73		25 - 115	09/09/15 07:26	09/12/15 02:49	1
Phenol-d5	83		31 - 110	09/09/15 07:26	09/12/15 02:49	1
Terphenyl-d14	123		36 - 134	09/09/15 07:26	09/12/15 02:49	1
2,4,6-Tribromophenol	77		35 - 137	09/09/15 07:26	09/12/15 02:49	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.46</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Arsenic</b>	<b>6.7</b>		0.60	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Barium</b>	<b>71</b>		0.60	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Beryllium</b>	<b>0.83</b>		0.24	0.052	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Cadmium</b>	<b>0.34</b>		0.12	0.035	mg/Kg	☼	09/08/15 12:00	09/10/15 02:43	1
<b>Chromium</b>	<b>22</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Cobalt</b>	<b>9.9</b>		0.30	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Copper</b>	<b>24</b>		0.60	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Lead</b>	<b>22</b>		0.30	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Magnesium</b>	<b>12000</b>		6.0	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Manganese</b>	<b>250</b>		0.60	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Nickel</b>	<b>23</b>	<b>B</b>	0.60	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Selenium</b>	<b>1.1</b>		0.60	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Thallium</b>	<b>0.79</b>		0.60	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Vanadium</b>	<b>28</b>		0.30	0.087	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Zinc</b>	<b>53</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Potassium</b>	<b>3200</b>		30	4.9	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1
<b>Sodium</b>	<b>2600</b>		60	7.9	mg/Kg	☼	09/08/15 12:00	09/09/15 04:58	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:37	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B49 (0-2)**

**Lab Sample ID: 500-100833-6**

Date Collected: 09/03/15 10:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.5

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
Cobalt	0.019	J	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:37	1
Magnesium	150		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:37	1
Manganese	3.9		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
Nickel	0.011	J	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
Potassium	5.6		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:37	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:37	1
Zinc	0.27	B	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:37	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.070		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Barium	0.75	B	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 21:35	1
Beryllium	0.0087		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 21:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 21:35	1
Calcium	36	B	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 21:35	1
Chromium	0.20		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Cobalt	0.089		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Copper	0.23		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Iron	190		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 21:35	1
Lead	0.22		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 21:35	1
Magnesium	35	B	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:35	1
Manganese	1.9		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Nickel	0.21		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Potassium	35	B	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 21:35	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Vanadium	0.27		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:35	1
Zinc	0.64	B	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 21:35	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:15	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:15	1
Thallium	0.0042		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:15	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B49 (0-2)**

**Lab Sample ID: 500-100833-6**

**Date Collected: 09/03/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:35	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	J	0.018	0.0063	mg/Kg	☼	09/10/15 15:00	09/11/15 14:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:37	1
pH	8.49		0.200	0.200	SU			09/10/15 17:03	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 (0-2)**

**Lab Sample ID: 500-100833-7**

Date Collected: 09/03/15 10:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.0

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 14:10	09/09/15 16:42	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/09/15 16:42	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 14:10	09/09/15 16:42	1
Toluene-d8 (Surr)	117		75 - 122	09/04/15 14:10	09/09/15 16:42	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.029	J	0.039	0.0070	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Anthracene	0.16		0.039	0.0065	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Benzo[a]anthracene	0.53		0.039	0.0052	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 (0-2)**

**Lab Sample ID: 500-100833-7**

**Date Collected: 09/03/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.50		0.039	0.0075	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Benzo[b]fluoranthene	0.78		0.039	0.0084	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Benzo[g,h,i]perylene	0.18		0.039	0.012	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Benzo[k]fluoranthene	0.35		0.039	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Bis(2-ethylhexyl) phthalate	0.15	J	0.20	0.071	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Chrysene	0.53		0.039	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Dibenz(a,h)anthracene	0.049		0.039	0.0075	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Fluoranthene	1.0		0.039	0.0072	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Fluorene	0.043		0.039	0.0055	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Indeno[1,2,3-cd]pyrene	0.20		0.039	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2-Methylnaphthalene	0.0093	J	0.039	0.0071	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Naphthalene	0.0087	J	0.039	0.0060	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 (0-2)**

**Lab Sample ID: 500-100833-7**

**Date Collected: 09/03/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
<b>Phenanthrene</b>	<b>0.50</b>		0.039	0.0054	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
<b>Pyrene</b>	<b>1.4</b>		0.039	0.0077	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 03:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	73		25 - 119				09/09/15 07:26	09/12/15 03:16	1
2-Fluorophenol	77		25 - 110				09/09/15 07:26	09/12/15 03:16	1
Nitrobenzene-d5	66		25 - 115				09/09/15 07:26	09/12/15 03:16	1
Phenol-d5	75		31 - 110				09/09/15 07:26	09/12/15 03:16	1
Terphenyl-d14	132		36 - 134				09/09/15 07:26	09/12/15 03:16	1
2,4,6-Tribromophenol	64		35 - 137				09/09/15 07:26	09/12/15 03:16	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.31</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Arsenic</b>	<b>7.5</b>		0.56	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Barium</b>	<b>35</b>		0.56	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Beryllium</b>	<b>0.60</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Cadmium</b>	<b>0.21</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 02:55	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.56	0.097	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Cobalt</b>	<b>6.5</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Copper</b>	<b>20</b>		0.56	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Lead</b>	<b>17</b>		0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Magnesium</b>	<b>33000</b>		5.6	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Calcium</b>	<b>53000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Manganese</b>	<b>230</b>		0.56	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Nickel</b>	<b>17</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Selenium</b>	<b>0.75</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Silver</b>	<b>0.069</b>	<b>J</b>	0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Thallium</b>	<b>0.59</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Vanadium</b>	<b>20</b>		0.28	0.082	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Zinc</b>	<b>45</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Potassium</b>	<b>2200</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1
<b>Sodium</b>	<b>2000</b>		56	7.4	mg/Kg	☼	09/08/15 12:00	09/09/15 05:04	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:41	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 (0-2)**

**Lab Sample ID: 500-100833-7**

**Date Collected: 09/03/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.0**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>460</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:41	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:41	1
<b>Magnesium</b>	<b>88</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:41	1
<b>Manganese</b>	<b>0.065</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
<b>Potassium</b>	<b>2.5</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:41	1
<b>Selenium</b>	<b>0.021</b>	<b>J</b>	0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:41	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:41	1
<b>Zinc</b>	<b>0.18</b>	<b>B</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:41	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.071</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Barium</b>	<b>0.59</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Beryllium</b>	<b>0.0081</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 21:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Calcium</b>	<b>51</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Cobalt</b>	<b>0.061</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Lead</b>	<b>0.20</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Magnesium</b>	<b>45</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Potassium</b>	<b>33</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 21:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 21:42	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 21:42	1
<b>Zinc</b>	<b>0.53</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 21:42	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:15	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:18	1
<b>Thallium</b>	<b>0.0038</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:18	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 (0-2)**

**Lab Sample ID: 500-100833-7**

**Date Collected: 09/03/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.019</b>		0.019	0.0067	mg/Kg	☼	09/10/15 15:00	09/11/15 14:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	09/10/15 12:20	09/10/15 14:38	1
pH	<b>8.95</b>		0.200	0.200	SU			09/10/15 17:07	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

**Date Collected: 09/03/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/09/15 17:07	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 17:07	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/09/15 17:07	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 14:10	09/09/15 17:07	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0087	J	0.037	0.0066	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Anthracene	0.048		0.037	0.0061	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Benzo[a]anthracene	0.19		0.037	0.0050	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

**Date Collected: 09/03/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.20</b>		0.037	0.0071	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.30</b>		0.037	0.0079	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Benzo[g,h,i]perylene</b>	<b>0.072</b>		0.037	0.012	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Benzo[k]fluoranthene</b>	<b>0.13</b>		0.037	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Chrysene</b>	<b>0.19</b>		0.037	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Dibenz(a,h)anthracene</b>	<b>0.019 J</b>		0.037	0.0071	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Fluoranthene</b>	<b>0.35</b>		0.037	0.0068	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Fluorene</b>	<b>0.016 J</b>		0.037	0.0052	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.083</b>		0.037	0.0095	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

**Date Collected: 09/03/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Phenanthrene</b>	<b>0.15</b>		0.037	0.0051	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
<b>Pyrene</b>	<b>0.33</b>		0.037	0.0073	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/09/15 07:26	09/12/15 01:57	1
2-Fluorophenol	85		25 - 110	09/09/15 07:26	09/12/15 01:57	1
Nitrobenzene-d5	72		25 - 115	09/09/15 07:26	09/12/15 01:57	1
Phenol-d5	82		31 - 110	09/09/15 07:26	09/12/15 01:57	1
Terphenyl-d14	99		36 - 134	09/09/15 07:26	09/12/15 01:57	1
2,4,6-Tribromophenol	68		35 - 137	09/09/15 07:26	09/12/15 01:57	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Arsenic</b>	<b>6.1</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Barium</b>	<b>46</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Beryllium</b>	<b>0.64</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Cadmium</b>	<b>0.30</b>		0.12	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 03:00	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Cobalt</b>	<b>9.2</b>		0.29	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Copper</b>	<b>18</b>		0.58	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	12	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Lead</b>	<b>19</b>		0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Magnesium</b>	<b>35000</b>		5.8	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Calcium</b>	<b>77000</b>	<b>B</b>	120	37	mg/Kg	☼	09/08/15 12:00	09/10/15 03:05	10
<b>Manganese</b>	<b>570</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Nickel</b>	<b>22</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.29	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Thallium</b>	<b>1.0</b>		0.58	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Vanadium</b>	<b>19</b>		0.29	0.084	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Zinc</b>	<b>38</b>	<b>B</b>	1.2	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Potassium</b>	<b>3100</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1
<b>Sodium</b>	<b>2000</b>		58	7.6	mg/Kg	☼	09/08/15 12:00	09/09/15 05:11	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:45	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

Date Collected: 09/03/15 10:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>460</b>	<b>B</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
<b>Iron</b>	<b>0.21</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:45	1
<b>Magnesium</b>	<b>87</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:45	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
<b>Potassium</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:45	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:45	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:45	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.038</b>	<b>J</b>	0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Barium</b>	<b>0.48</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Beryllium</b>	<b>0.0048</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Calcium</b>	<b>53</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Chromium</b>	<b>0.094</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Cobalt</b>	<b>0.040</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Copper</b>	<b>0.098</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Iron</b>	<b>90</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Lead</b>	<b>0.092</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Magnesium</b>	<b>31</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Potassium</b>	<b>20</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:05	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:05	1
<b>Zinc</b>	<b>0.30</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:05	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:16	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:19	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

Date Collected: 09/03/15 10:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 14:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 12:20	09/10/15 14:38	1
pH	8.91		0.200	0.200	SU			09/10/15 17:11	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B51 (0-2)**

**Lab Sample ID: 500-100833-9**

**Date Collected: 09/03/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Benzene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Bromodichloromethane	<0.0052		0.0052	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
2-Butanone (MEK)	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Dibromochloromethane	<0.0052		0.0052	0.00059	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,2-Dichloroethane	<0.0052		0.0052	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/09/15 17:32	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 17:32	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 14:10	09/09/15 17:32	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 14:10	09/09/15 17:32	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
<b>Anthracene</b>	<b>0.012</b>	<b>J</b>	0.037	0.0063	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
<b>Benzo[a]anthracene</b>	<b>0.055</b>		0.037	0.0051	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B51 (0-2)**

**Lab Sample ID: 500-100833-9**

**Date Collected: 09/03/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.060		0.037	0.0073	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Benzo[b]fluoranthene	0.098		0.037	0.0081	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Benzo[g,h,i]perylene	0.026	J	0.037	0.012	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Benzo[k]fluoranthene	0.041		0.037	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Bis(2-ethylhexyl) phthalate	0.092	J	0.19	0.069	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Chrysene	0.065		0.037	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Fluoranthene	0.11		0.037	0.0070	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.037	0.0097	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B51 (0-2)**

**Lab Sample ID: 500-100833-9**

**Date Collected: 09/03/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
<b>Phenanthrene</b>	<b>0.065</b>		0.037	0.0052	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
<b>Pyrene</b>	<b>0.11</b>		0.037	0.0075	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	09/09/15 07:26	09/12/15 01:31	1
2-Fluorophenol	77		25 - 110	09/09/15 07:26	09/12/15 01:31	1
Nitrobenzene-d5	62		25 - 115	09/09/15 07:26	09/12/15 01:31	1
Phenol-d5	76		31 - 110	09/09/15 07:26	09/12/15 01:31	1
Terphenyl-d14	92		36 - 134	09/09/15 07:26	09/12/15 01:31	1
2,4,6-Tribromophenol	65		35 - 137	09/09/15 07:26	09/12/15 01:31	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.24</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Arsenic</b>	<b>5.9</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Barium</b>	<b>43</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Beryllium</b>	<b>0.48</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Cadmium</b>	<b>0.26</b>		0.12	0.034	mg/Kg	☼	09/08/15 12:00	09/10/15 03:09	1
<b>Chromium</b>	<b>11</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Cobalt</b>	<b>4.6</b>		0.29	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Copper</b>	<b>15</b>		0.58	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Iron</b>	<b>13000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Lead</b>	<b>42</b>		0.29	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Magnesium</b>	<b>33000</b>		5.8	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Calcium</b>	<b>56000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Manganese</b>	<b>310</b>		0.58	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Nickel</b>	<b>12</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Selenium</b>	<b>0.56</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Vanadium</b>	<b>20</b>		0.29	0.085	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Zinc</b>	<b>44</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Potassium</b>	<b>1600</b>		29	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1
<b>Sodium</b>	<b>1300</b>		58	7.7	mg/Kg	☼	09/08/15 12:00	09/09/15 05:34	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:49	1
<b>Cadmium</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B51 (0-2)**

**Lab Sample ID: 500-100833-9**

**Date Collected: 09/03/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>410</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:49	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:49	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:49	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
<b>Potassium</b>	<b>2.8</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:49	1
<b>Selenium</b>	<b>0.020</b>	<b>J</b>	0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:49	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:49	1
<b>Zinc</b>	<b>0.16</b>	<b>B</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:49	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Barium</b>	<b>0.19</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Calcium</b>	<b>30</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Chromium</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Copper</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Iron</b>	<b>7.8</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Lead</b>	<b>0.087</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Magnesium</b>	<b>7.2</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Potassium</b>	<b>3.6</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:11	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Vanadium</b>	<b>0.033</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:11	1
<b>Zinc</b>	<b>0.22</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:11	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:17	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:20	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B51 (0-2)**

**Lab Sample ID: 500-100833-9**

**Date Collected: 09/03/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 14:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/10/15 12:20	09/10/15 14:39	1
pH	9.50		0.200	0.200	SU			09/10/15 17:16	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

**Date Collected: 09/03/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 77.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Carbon disulfide	<0.0050		0.0050	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Toluene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Vinyl acetate	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 14:10	09/09/15 17:57	1
Dibromofluoromethane	106		75 - 120	09/04/15 14:10	09/09/15 17:57	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	09/04/15 14:10	09/09/15 17:57	1
Toluene-d8 (Surr)	117		75 - 122	09/04/15 14:10	09/09/15 17:57	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

**Date Collected: 09/03/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 77.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

**Date Collected: 09/03/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 77.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	09/09/15 07:26	09/11/15 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	09/09/15 07:26	09/11/15 00:09	1
2-Fluorophenol	86		25 - 110	09/09/15 07:26	09/11/15 00:09	1
Nitrobenzene-d5	71		25 - 115	09/09/15 07:26	09/11/15 00:09	1
Phenol-d5	85		31 - 110	09/09/15 07:26	09/11/15 00:09	1
Terphenyl-d14	82		36 - 134	09/09/15 07:26	09/11/15 00:09	1
2,4,6-Tribromophenol	79		35 - 137	09/09/15 07:26	09/11/15 00:09	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.94</b>	<b>J</b>	1.2	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Arsenic</b>	<b>23</b>		0.62	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Barium</b>	<b>78</b>		0.62	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Beryllium</b>	<b>1.1</b>		0.25	0.054	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Cadmium</b>	<b>0.26</b>		0.12	0.036	mg/Kg	☼	09/08/15 12:00	09/10/15 03:14	1
<b>Chromium</b>	<b>28</b>	<b>B</b>	0.62	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Cobalt</b>	<b>11</b>		0.31	0.070	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Copper</b>	<b>30</b>		0.62	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Iron</b>	<b>40000</b>	<b>B</b>	12	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Lead</b>	<b>18</b>		0.31	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Magnesium</b>	<b>4800</b>		6.2	2.5	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Calcium</b>	<b>2400</b>	<b>B</b>	12	4.0	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Manganese</b>	<b>480</b>		0.62	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Nickel</b>	<b>35</b>	<b>B</b>	0.62	0.17	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Selenium</b>	<b>2.1</b>		0.62	0.31	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Silver</b>	<b>0.12</b>	<b>J</b>	0.31	0.073	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Thallium</b>	<b>1.6</b>		0.62	0.31	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Vanadium</b>	<b>36</b>		0.31	0.091	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Zinc</b>	<b>68</b>	<b>B</b>	1.2	0.39	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Potassium</b>	<b>3200</b>		31	5.1	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1
<b>Sodium</b>	<b>2100</b>		62	8.2	mg/Kg	☼	09/08/15 12:00	09/09/15 05:41	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

**Date Collected: 09/03/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 77.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>44</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:53	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
<b>Iron</b>	<b>0.25</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:53	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:53	1
<b>Manganese</b>	<b>0.094</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
<b>Potassium</b>	<b>1.6</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:53	1
<b>Selenium</b>	<b>0.021</b>	<b>J</b>	0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:53	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:53	1
<b>Zinc</b>	<b>1.1</b>	<b>B</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:53	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.16</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Barium</b>	<b>1.1</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Beryllium</b>	<b>0.012</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Calcium</b>	<b>26</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Chromium</b>	<b>0.29</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Cobalt</b>	<b>0.081</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Copper</b>	<b>0.35</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Iron</b>	<b>370</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Magnesium</b>	<b>51</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Nickel</b>	<b>0.37</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Potassium</b>	<b>37</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:18	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Vanadium</b>	<b>0.35</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:18	1
<b>Zinc</b>	<b>0.80</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:18	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:18	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:21	1
<b>Thallium</b>	<b>0.0067</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:21	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

Date Collected: 09/03/15 09:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 77.9

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0067	mg/Kg	☼	09/10/15 15:00	09/11/15 14:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	09/10/15 12:20	09/10/15 14:39	1
pH	7.94		0.200	0.200	SU			09/10/15 17:20	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

**Date Collected: 09/03/15 09:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Toluene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/09/15 18:22	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/09/15 18:22	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 14:10	09/09/15 18:22	1
Toluene-d8 (Surr)	118		75 - 122	09/04/15 14:10	09/09/15 18:22	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.21		0.21	0.038	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Acenaphthylene	<0.21		0.21	0.028	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Anthracene	<0.21		0.21	0.035	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
<b>Benzo[a]anthracene</b>	<b>0.11</b>	<b>J</b>	0.21	0.028	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

**Date Collected: 09/03/15 09:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.21		0.21	0.041	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Benzo[b]fluoranthene	<0.21		0.21	0.045	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Benzo[g,h,i]perylene	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Benzo[k]fluoranthene	<0.21		0.21	0.062	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Bis(2-chloroethoxy)methane	<1.1		1.1	0.21	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Bis(2-chloroethyl)ether	<1.1		1.1	0.32	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Bis(2-ethylhexyl) phthalate	<1.1		1.1	0.38	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
4-Bromophenyl phenyl ether	<1.1		1.1	0.28	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Butyl benzyl phthalate	<1.1		1.1	0.40	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Carbazole	<1.1		1.1	0.53	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
4-Chloroaniline	<4.2		4.2	0.99	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
4-Chloro-3-methylphenol	<2.1		2.1	0.72	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2-Chloronaphthalene	<1.1		1.1	0.23	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2-Chlorophenol	<1.1		1.1	0.36	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
4-Chlorophenyl phenyl ether	<1.1		1.1	0.25	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
<b>Chrysene</b>	<b>0.13</b>	<b>J</b>	0.21	0.057	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Dibenz(a,h)anthracene	<0.21		0.21	0.041	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Dibenzofuran	<1.1		1.1	0.25	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
1,2-Dichlorobenzene	<1.1		1.1	0.25	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
1,3-Dichlorobenzene	<1.1		1.1	0.24	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
1,4-Dichlorobenzene	<1.1		1.1	0.27	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
3,3'-Dichlorobenzidine	<1.1		1.1	0.29	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,4-Dichlorophenol	<2.1		2.1	0.50	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Diethyl phthalate	<1.1		1.1	0.36	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,4-Dimethylphenol	<2.1		2.1	0.80	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Dimethyl phthalate	<1.1		1.1	0.27	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Di-n-butyl phthalate	<1.1		1.1	0.32	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
4,6-Dinitro-2-methylphenol	<4.2		4.2	1.7	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,4-Dinitrophenol	<4.2		4.2	3.7	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,4-Dinitrotoluene	<1.1		1.1	0.33	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,6-Dinitrotoluene	<1.1		1.1	0.41	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Di-n-octyl phthalate	<1.1		1.1	0.34	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
<b>Fluoranthene</b>	<b>0.17</b>	<b>J</b>	0.21	0.039	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Fluorene	<0.21		0.21	0.030	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Hexachlorobenzene	<0.42		0.42	0.049	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Hexachlorobutadiene	<1.1		1.1	0.33	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Hexachlorocyclopentadiene	<4.2		4.2	1.2	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Hexachloroethane	<1.1		1.1	0.32	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Indeno[1,2,3-cd]pyrene	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Isophorone	<1.1		1.1	0.24	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2-Methylnaphthalene	<0.21		0.21	0.039	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2-Methylphenol	<1.1		1.1	0.34	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
3 & 4 Methylphenol	<1.1		1.1	0.35	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Naphthalene	<0.21		0.21	0.032	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2-Nitroaniline	<1.1		1.1	0.28	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
3-Nitroaniline	<2.1		2.1	0.65	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
4-Nitroaniline	<2.1		2.1	0.88	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Nitrobenzene	<0.21		0.21	0.052	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2-Nitrophenol	<2.1		2.1	0.50	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

**Date Collected: 09/03/15 09:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<4.2		4.2	2.0	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
N-Nitrosodi-n-propylamine	<1.1		1.1	0.26	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
N-Nitrosodiphenylamine	<1.1		1.1	0.25	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,2'-oxybis[1-chloropropane]	<1.1		1.1	0.24	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Pentachlorophenol	<4.2		4.2	3.4	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
<b>Phenanthrene</b>	<b>0.12</b>	<b>J</b>	0.21	0.029	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
Phenol	<1.1		1.1	0.47	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
<b>Pyrene</b>	<b>0.37</b>		0.21	0.042	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
1,2,4-Trichlorobenzene	<1.1		1.1	0.23	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,4,5-Trichlorophenol	<2.1		2.1	0.48	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
2,4,6-Trichlorophenol	<2.1		2.1	0.72	mg/Kg	☼	09/09/15 07:26	09/15/15 04:59	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	99		25 - 119				09/09/15 07:26	09/15/15 04:59	5
2-Fluorophenol	94		25 - 110				09/09/15 07:26	09/15/15 04:59	5
Nitrobenzene-d5	81		25 - 115				09/09/15 07:26	09/15/15 04:59	5
Phenol-d5	101		31 - 110				09/09/15 07:26	09/15/15 04:59	5
Terphenyl-d14	201	X	36 - 134				09/09/15 07:26	09/15/15 04:59	5
2,4,6-Tribromophenol	93		35 - 137				09/09/15 07:26	09/15/15 04:59	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.50</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Arsenic</b>	<b>9.3</b>		0.60	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Barium</b>	<b>120</b>		0.60	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Beryllium</b>	<b>0.73</b>		0.24	0.052	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Cadmium</b>	<b>0.37</b>		0.12	0.035	mg/Kg	☼	09/08/15 12:00	09/10/15 03:19	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Cobalt</b>	<b>8.4</b>		0.30	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Copper</b>	<b>19</b>		0.60	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Lead</b>	<b>37</b>		0.30	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Magnesium</b>	<b>7700</b>		6.0	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Manganese</b>	<b>630</b>		0.60	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Nickel</b>	<b>18</b>	<b>B</b>	0.60	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Selenium</b>	<b>1.3</b>		0.60	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Silver</b>	<b>0.073</b>	<b>J</b>	0.30	0.070	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Thallium</b>	<b>0.71</b>		0.60	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Vanadium</b>	<b>26</b>		0.30	0.087	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Zinc</b>	<b>54</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Potassium</b>	<b>2100</b>		30	4.9	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1
<b>Sodium</b>	<b>2700</b>		60	7.9	mg/Kg	☼	09/08/15 12:00	09/09/15 05:47	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Cadmium</b>	<b>0.0049</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 13:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

Date Collected: 09/03/15 09:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 78.4

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>540</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Lead</b>	<b>0.038</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Magnesium</b>	<b>310</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Manganese</b>	<b>3.7</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Potassium</b>	<b>1.2</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 13:57	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 13:57	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 13:57	1
<b>Zinc</b>	<b>0.081</b>	<b>J B</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 13:57	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.050</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Barium</b>	<b>0.71</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Beryllium</b>	<b>0.0063</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Calcium</b>	<b>28</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Cobalt</b>	<b>0.034</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Lead</b>	<b>0.64</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Magnesium</b>	<b>32</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Potassium</b>	<b>28</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:25	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:25	1
<b>Zinc</b>	<b>0.76</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:25	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:22	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:22	1
<b>Thallium</b>	<b>0.0030</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:22	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:45	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

**Date Collected: 09/03/15 09:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.019	0.0066	mg/Kg	☼	09/10/15 15:00	09/11/15 14:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/10/15 12:20	09/10/15 14:40	1
pH	8.48		0.200	0.200	SU			09/10/15 17:25	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B54 (0-2)**

**Lab Sample ID: 500-100833-12**

Date Collected: 09/03/15 09:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 79.2

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 14:10	09/09/15 18:47	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 18:47	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 14:10	09/09/15 18:47	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 14:10	09/09/15 18:47	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Anthracene</b>	<b>0.024</b>	<b>J</b>	0.041	0.0069	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Benzo[a]anthracene</b>	<b>0.082</b>		0.041	0.0056	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B54 (0-2)**

**Lab Sample ID: 500-100833-12**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.081</b>		0.041	0.0080	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Benzo[b]fluoranthene</b>	<b>0.14</b>		0.041	0.0089	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Benzo[g,h,i]perylene</b>	<b>0.036</b>	<b>J</b>	0.041	0.013	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Benzo[k]fluoranthene</b>	<b>0.056</b>		0.041	0.012	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Chrysene</b>	<b>0.10</b>		0.041	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Fluoranthene</b>	<b>0.15</b>		0.041	0.0077	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Fluorene</b>	<b>0.0080</b>	<b>J</b>	0.041	0.0058	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.039</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B54 (0-2)**

**Lab Sample ID: 500-100833-12**

Date Collected: 09/03/15 09:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 79.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Phenanthrene</b>	<b>0.10</b>		0.041	0.0058	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Pyrene</b>	<b>0.21</b>		0.041	0.0082	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 03:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	70		25 - 119				09/09/15 07:26	09/12/15 03:42	1
2-Fluorophenol	74		25 - 110				09/09/15 07:26	09/12/15 03:42	1
Nitrobenzene-d5	63		25 - 115				09/09/15 07:26	09/12/15 03:42	1
Phenol-d5	75		31 - 110				09/09/15 07:26	09/12/15 03:42	1
Terphenyl-d14	125		36 - 134				09/09/15 07:26	09/12/15 03:42	1
2,4,6-Tribromophenol	72		35 - 137				09/09/15 07:26	09/12/15 03:42	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.44</b>	<b>J</b>	1.2	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Arsenic</b>	<b>9.1</b>		0.62	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Barium</b>	<b>88</b>		0.62	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Beryllium</b>	<b>0.78</b>		0.25	0.054	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Cadmium</b>	<b>0.71</b>		0.12	0.036	mg/Kg	☼	09/08/15 12:00	09/10/15 03:24	1
<b>Chromium</b>	<b>21</b>	<b>B</b>	0.62	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Cobalt</b>	<b>11</b>		0.31	0.071	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Copper</b>	<b>26</b>		0.62	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.8	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Lead</b>	<b>130</b>		0.31	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Magnesium</b>	<b>23000</b>		6.2	2.5	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Calcium</b>	<b>34000</b>	<b>B</b>	12	4.0	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Manganese</b>	<b>880</b>		0.62	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.62	0.17	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Selenium</b>	<b>1.1</b>		0.62	0.31	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Silver</b>	<b>0.32</b>		0.31	0.073	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Thallium</b>	<b>1.5</b>		0.62	0.31	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Vanadium</b>	<b>26</b>		0.31	0.091	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Zinc</b>	<b>74</b>	<b>B</b>	1.2	0.39	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Potassium</b>	<b>2900</b>		31	5.1	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1
<b>Sodium</b>	<b>2800</b>		62	8.2	mg/Kg	☼	09/08/15 12:00	09/09/15 05:54	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:02	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B54 (0-2)**

**Lab Sample ID: 500-100833-12**

Date Collected: 09/03/15 09:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 79.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>300</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:02	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:02	1
<b>Manganese</b>	<b>0.029</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:02	1
<b>Selenium</b>	<b>0.022</b>	<b>J</b>	0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:02	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:02	1
<b>Zinc</b>	<b>0.64</b>	<b>B</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:02	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Barium</b>	<b>0.87</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Beryllium</b>	<b>0.011</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Calcium</b>	<b>32</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Chromium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Cobalt</b>	<b>0.089</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Copper</b>	<b>0.29</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Iron</b>	<b>270</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Lead</b>	<b>0.52</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Magnesium</b>	<b>45</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Nickel</b>	<b>0.30</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Potassium</b>	<b>38</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:32	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Vanadium</b>	<b>0.31</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:32	1
<b>Zinc</b>	<b>0.91</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:32	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:23	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:22	1
<b>Thallium</b>	<b>0.0055</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:22	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B54 (0-2)**

**Lab Sample ID: 500-100833-12**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 14:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:40	1
pH	8.62		0.200	0.200	SU			09/10/15 17:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B55 (0-2)**

**Lab Sample ID: 500-100833-13**

**Date Collected: 09/03/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Methylene Chloride	<0.0050		0.0050	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/09/15 19:12	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/09/15 19:12	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 14:10	09/09/15 19:12	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 19:12	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B55 (0-2)**

**Lab Sample ID: 500-100833-13**

**Date Collected: 09/03/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B55 (0-2)**

**Lab Sample ID: 500-100833-13**

Date Collected: 09/03/15 09:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	09/09/15 07:26	09/11/15 00:36	1
2-Fluorophenol	75		25 - 110	09/09/15 07:26	09/11/15 00:36	1
Nitrobenzene-d5	64		25 - 115	09/09/15 07:26	09/11/15 00:36	1
Phenol-d5	72		31 - 110	09/09/15 07:26	09/11/15 00:36	1
Terphenyl-d14	80		36 - 134	09/09/15 07:26	09/11/15 00:36	1
2,4,6-Tribromophenol	76		35 - 137	09/09/15 07:26	09/11/15 00:36	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.31</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Arsenic</b>	<b>5.7</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Barium</b>	<b>41</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Beryllium</b>	<b>0.67</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Cadmium</b>	<b>0.21</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 03:28	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Cobalt</b>	<b>8.8</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Copper</b>	<b>19</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Magnesium</b>	<b>35000</b>		5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Calcium</b>	<b>75000</b>	<b>B</b>	110	37	mg/Kg	☼	09/08/15 12:00	09/10/15 03:33	10
<b>Manganese</b>	<b>410</b>		0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Selenium</b>	<b>0.60</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Thallium</b>	<b>0.80</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Vanadium</b>	<b>20</b>		0.28	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Zinc</b>	<b>37</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Potassium</b>	<b>3500</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1
<b>Sodium</b>	<b>2000</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 06:01	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B55 (0-2)**

**Lab Sample ID: 500-100833-13**

Date Collected: 09/03/15 09:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1200</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 18:41	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Cobalt</b>	<b>0.057</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Lead</b>	<b>0.0082</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Magnesium</b>	<b>250</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Manganese</b>	<b>4.2</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Nickel</b>	<b>0.038</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Potassium</b>	<b>1.6</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:07	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:07	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:07	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:07	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.077</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Barium</b>	<b>0.61</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Beryllium</b>	<b>0.0086</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Calcium</b>	<b>87</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Chromium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Cobalt</b>	<b>0.050</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Magnesium</b>	<b>68</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Manganese</b>	<b>0.85</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Potassium</b>	<b>42</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:38	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Vanadium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:38	1
<b>Zinc</b>	<b>0.45</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:38	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:24	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:23	1
<b>Thallium</b>	<b>0.0039</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:23	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B55 (0-2)**

**Lab Sample ID: 500-100833-13**

Date Collected: 09/03/15 09:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 14:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 12:20	09/10/15 14:40	1
pH	8.66		0.200	0.200	SU			09/10/15 17:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B56 (0-2)**

**Lab Sample ID: 500-100833-14**

**Date Collected: 09/03/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Benzene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Bromodichloromethane	<0.0056		0.0056	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Bromoform	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Carbon disulfide	<0.0056		0.0056	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Carbon tetrachloride	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Chlorobenzene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Chloroethane	<0.0056		0.0056	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Chloroform	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Chloromethane	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Dibromochloromethane	<0.0056		0.0056	0.00064	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,1-Dichloroethane	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,1-Dichloroethene	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,2-Dichloropropane	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Ethylbenzene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Methylene Chloride	<0.0056		0.0056	0.0042	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Methyl tert-butyl ether	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Styrene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Tetrachloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Toluene	<0.0056		0.0056	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Trichloroethene	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Vinyl acetate	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Vinyl chloride	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 14:10	09/09/15 19:37	1
Dibromofluoromethane	109		75 - 120	09/04/15 14:10	09/09/15 19:37	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	09/04/15 14:10	09/09/15 19:37	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/09/15 19:37	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B56 (0-2)**

**Lab Sample ID: 500-100833-14**

**Date Collected: 09/03/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
<b>Fluoranthene</b>	<b>0.0086</b>	<b>J</b>	0.042	0.0077	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
4-Nitroaniline	<0.42		0.42	0.17	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B56 (0-2)**

**Lab Sample ID: 500-100833-14**

**Date Collected: 09/03/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	09/09/15 07:26	09/12/15 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	09/09/15 07:26	09/12/15 00:12	1
2-Fluorophenol	79		25 - 110	09/09/15 07:26	09/12/15 00:12	1
Nitrobenzene-d5	67		25 - 115	09/09/15 07:26	09/12/15 00:12	1
Phenol-d5	77		31 - 110	09/09/15 07:26	09/12/15 00:12	1
Terphenyl-d14	80		36 - 134	09/09/15 07:26	09/12/15 00:12	1
2,4,6-Tribromophenol	73		35 - 137	09/09/15 07:26	09/12/15 00:12	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.42</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Arsenic</b>	<b>9.6</b>		0.60	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Barium</b>	<b>130</b>		0.60	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Beryllium</b>	<b>0.77</b>		0.24	0.052	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Cadmium</b>	<b>0.23</b>		0.12	0.035	mg/Kg	☼	09/08/15 12:00	09/10/15 03:37	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Cobalt</b>	<b>9.6</b>		0.30	0.068	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Copper</b>	<b>22</b>		0.60	0.13	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Lead</b>	<b>16</b>		0.30	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Magnesium</b>	<b>3500</b>		6.0	2.4	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Calcium</b>	<b>1800</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Manganese</b>	<b>590</b>		0.60	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Nickel</b>	<b>29</b>	<b>B</b>	0.60	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Selenium</b>	<b>1.1</b>		0.60	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Silver</b>	<b>0.091</b>	<b>J</b>	0.30	0.070	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Thallium</b>	<b>1.4</b>		0.60	0.30	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Vanadium</b>	<b>27</b>		0.30	0.088	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Potassium</b>	<b>1900</b>		30	4.9	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1
<b>Sodium</b>	<b>2400</b>		60	7.9	mg/Kg	☼	09/08/15 12:00	09/09/15 06:08	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B56 (0-2)**

**Lab Sample ID: 500-100833-14**

**Date Collected: 09/03/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>92</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:12	1
<b>Magnesium</b>	<b>35</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:12	1
<b>Manganese</b>	<b>0.92</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:12	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:12	1
<b>Zinc</b>	<b>0.95</b>	<b>B</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:12	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.12</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Barium</b>	<b>1.5</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Beryllium</b>	<b>0.011</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Calcium</b>	<b>26</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Chromium</b>	<b>0.24</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Cobalt</b>	<b>0.060</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Copper</b>	<b>0.30</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Iron</b>	<b>290</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Magnesium</b>	<b>44</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Nickel</b>	<b>0.32</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Potassium</b>	<b>31</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:45	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Vanadium</b>	<b>0.32</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:45	1
<b>Zinc</b>	<b>0.72</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:45	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:24	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:24	1
<b>Thallium</b>	<b>0.0054</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:24	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B56 (0-2)**

**Lab Sample ID: 500-100833-14**

**Date Collected: 09/03/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:50	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 15:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/10/15 12:20	09/10/15 14:40	1
pH	7.92		0.200	0.200	SU			09/10/15 17:38	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

**Date Collected: 09/03/15 17:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.026</b>		0.021	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 14:10	09/09/15 20:02	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 20:02	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 14:10	09/09/15 20:02	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 14:10	09/09/15 20:02	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
<b>Anthracene</b>	<b>0.018</b>	<b>J</b>	0.039	0.0065	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
<b>Benzo[a]anthracene</b>	<b>0.12</b>		0.039	0.0052	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

**Date Collected: 09/03/15 17:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.14		0.039	0.0075	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Benzo[b]fluoranthene	0.24		0.039	0.0084	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Benzo[g,h,i]perylene	0.063		0.039	0.013	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Benzo[k]fluoranthene	0.098		0.039	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Bis(2-ethylhexyl) phthalate	0.23		0.20	0.071	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Butyl benzyl phthalate	0.075	J	0.20	0.074	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Chrysene	0.14		0.039	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Dibenz(a,h)anthracene	0.018	J	0.039	0.0075	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Fluoranthene	0.27		0.039	0.0072	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Indeno[1,2,3-cd]pyrene	0.070		0.039	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

**Date Collected: 09/03/15 17:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
<b>Phenanthrene</b>	<b>0.10</b>		0.039	0.0054	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
<b>Pyrene</b>	<b>0.27</b>		0.039	0.0077	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119				09/09/15 07:26	09/12/15 02:23	1
2-Fluorophenol	83		25 - 110				09/09/15 07:26	09/12/15 02:23	1
Nitrobenzene-d5	71		25 - 115				09/09/15 07:26	09/12/15 02:23	1
Phenol-d5	82		31 - 110				09/09/15 07:26	09/12/15 02:23	1
Terphenyl-d14	102		36 - 134				09/09/15 07:26	09/12/15 02:23	1
2,4,6-Tribromophenol	79		35 - 137				09/09/15 07:26	09/12/15 02:23	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.29</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Arsenic</b>	<b>8.0</b>		0.56	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Barium</b>	<b>76</b>		0.56	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Beryllium</b>	<b>0.76</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Cadmium</b>	<b>0.26</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 03:49	1
<b>Chromium</b>	<b>20</b>	<b>B</b>	0.56	0.097	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Copper</b>	<b>22</b>		0.56	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Lead</b>	<b>18</b>		0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Magnesium</b>	<b>21000</b>		5.6	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Calcium</b>	<b>45000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Manganese</b>	<b>390</b>		0.56	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Nickel</b>	<b>27</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Selenium</b>	<b>0.70</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Vanadium</b>	<b>25</b>		0.28	0.082	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Zinc</b>	<b>46</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Potassium</b>	<b>3000</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1
<b>Sodium</b>	<b>1900</b>		56	7.4	mg/Kg	☼	09/08/15 12:00	09/09/15 06:15	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Cadmium</b>	<b>0.0055</b>		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

Date Collected: 09/03/15 17:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>710</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 18:45	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Cobalt</b>	<b>0.057</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Iron</b>	<b>1.4</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Magnesium</b>	<b>200</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Manganese</b>	<b>8.4</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Potassium</b>	<b>0.81</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:23	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:23	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:23	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:23	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.086</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Barium</b>	<b>0.82</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Beryllium</b>	<b>0.0077</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Calcium</b>	<b>57</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Cobalt</b>	<b>0.086</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Lead</b>	<b>0.44</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Magnesium</b>	<b>43</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Potassium</b>	<b>32</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:52	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:52	1
<b>Zinc</b>	<b>0.56</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:52	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:25	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:25	1
<b>Thallium</b>	<b>0.0039</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:25	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

**Date Collected: 09/03/15 17:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:56	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0059	mg/Kg	☼	09/10/15 15:00	09/11/15 15:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:41	1
pH	9.00		0.200	0.200	SU			09/10/15 17:42	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B89 (0-2)**

**Lab Sample ID: 500-100833-16**

**Date Collected: 09/03/15 17:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.020</b>		0.017	0.0033	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/09/15 20:28	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 20:28	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/09/15 20:28	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/09/15 20:28	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1

TestAmerica Chicago

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**Lab Sample ID: 500-100833-16**

**Date Collected: 09/03/15 17:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
<b>Fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1

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**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	09/09/15 07:26	09/11/15 01:02	1
2-Fluorophenol	78		25 - 110	09/09/15 07:26	09/11/15 01:02	1
Nitrobenzene-d5	76		25 - 115	09/09/15 07:26	09/11/15 01:02	1
Phenol-d5	80		31 - 110	09/09/15 07:26	09/11/15 01:02	1
Terphenyl-d14	84		36 - 134	09/09/15 07:26	09/11/15 01:02	1
2,4,6-Tribromophenol	83		35 - 137	09/09/15 07:26	09/11/15 01:02	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Arsenic</b>	<b>8.2</b>		0.56	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Barium</b>	<b>54</b>		0.56	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Beryllium</b>	<b>0.74</b>		0.22	0.048	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.032	mg/Kg	☼	09/08/15 12:00	09/10/15 03:54	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Cobalt</b>	<b>11</b>		0.28	0.063	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Copper</b>	<b>26</b>		0.56	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Lead</b>	<b>13</b>		0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Magnesium</b>	<b>27000</b>		5.6	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Calcium</b>	<b>48000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Manganese</b>	<b>400</b>		0.56	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Nickel</b>	<b>27</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Selenium</b>	<b>0.78</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.28	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Thallium</b>	<b>0.74</b>		0.56	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Vanadium</b>	<b>23</b>		0.28	0.082	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Zinc</b>	<b>43</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Potassium</b>	<b>3500</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1
<b>Sodium</b>	<b>2400</b>		56	7.4	mg/Kg	☼	09/08/15 12:00	09/09/15 06:21	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:28	1

TestAmerica Chicago



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**Lab Sample ID: 500-100833-16**

Date Collected: 09/03/15 17:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.9

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>460</b>	<b>B</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:28	1
<b>Magnesium</b>	<b>26</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:28	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
Potassium	<2.5		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:28	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:28	1
<b>Zinc</b>	<b>1.2</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:28	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.13</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Barium</b>	<b>1.1</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Beryllium</b>	<b>0.012</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 22:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Calcium</b>	<b>61</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Chromium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Cobalt</b>	<b>0.15</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Copper</b>	<b>0.41</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Iron</b>	<b>330</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Magnesium</b>	<b>61</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Manganese</b>	<b>4.0</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Nickel</b>	<b>0.38</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Potassium</b>	<b>42</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 22:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 22:59	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Vanadium</b>	<b>0.33</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 22:59	1
<b>Zinc</b>	<b>0.82</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 22:59	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:26	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:26	1
<b>Thallium</b>	<b>0.0059</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:26	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B89 (0-2)**

**Lab Sample ID: 500-100833-16**

**Date Collected: 09/03/15 17:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:58	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0062	mg/Kg	☼	09/10/15 15:00	09/11/15 15:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:41	1
pH	9.08		0.200	0.200	SU			09/10/15 17:47	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B90 (0-2)**

**Lab Sample ID: 500-100833-17**

**Date Collected: 09/03/15 17:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/09/15 20:53	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 20:53	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 14:10	09/09/15 20:53	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/09/15 20:53	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B90 (0-2)**

**Lab Sample ID: 500-100833-17**

**Date Collected: 09/03/15 17:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B90 (0-2)**

**Lab Sample ID: 500-100833-17**

**Date Collected: 09/03/15 17:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	09/09/15 07:26	09/11/15 01:29	1
2-Fluorophenol	78		25 - 110	09/09/15 07:26	09/11/15 01:29	1
Nitrobenzene-d5	73		25 - 115	09/09/15 07:26	09/11/15 01:29	1
Phenol-d5	76		31 - 110	09/09/15 07:26	09/11/15 01:29	1
Terphenyl-d14	83		36 - 134	09/09/15 07:26	09/11/15 01:29	1
2,4,6-Tribromophenol	76		35 - 137	09/09/15 07:26	09/11/15 01:29	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Arsenic</b>	<b>6.3</b>		0.54	0.25	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Barium</b>	<b>29</b>		0.54	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Beryllium</b>	<b>0.67</b>		0.22	0.047	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Cadmium</b>	<b>0.31</b>		0.11	0.032	mg/Kg	☼	09/08/15 12:00	09/10/15 03:59	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.54	0.094	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Cobalt</b>	<b>7.7</b>		0.27	0.062	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Copper</b>	<b>25</b>		0.54	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Lead</b>	<b>24</b>		0.27	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Magnesium</b>	<b>32000</b>		5.4	2.2	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Calcium</b>	<b>76000</b>	<b>B</b>	110	35	mg/Kg	☼	09/08/15 12:00	09/10/15 04:04	10
<b>Manganese</b>	<b>320</b>		0.54	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Nickel</b>	<b>23</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Selenium</b>	<b>0.76</b>		0.54	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Silver</b>	<b>0.074</b>	<b>J</b>	0.27	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Thallium</b>	<b>0.78</b>		0.54	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Vanadium</b>	<b>20</b>		0.27	0.079	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Zinc</b>	<b>43</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Potassium</b>	<b>3400</b>		27	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1
<b>Sodium</b>	<b>2300</b>		54	7.2	mg/Kg	☼	09/08/15 12:00	09/09/15 06:28	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Cadmium</b>	<b>0.0046</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B90 (0-2)**

**Lab Sample ID: 500-100833-17**

**Date Collected: 09/03/15 17:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1100</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 18:49	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Cobalt</b>	<b>0.056</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Magnesium</b>	<b>270</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Manganese</b>	<b>5.8</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Nickel</b>	<b>0.048</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Potassium</b>	<b>1.8</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Selenium</b>	<b>0.020</b>	<b>J</b>	0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:32	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:32	1
<b>Zinc</b>	<b>0.38</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:32	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Barium</b>	<b>0.79</b>	<b>B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Beryllium</b>	<b>0.0098</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 23:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Calcium</b>	<b>86</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Chromium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Cobalt</b>	<b>0.090</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Copper</b>	<b>0.32</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Lead</b>	<b>0.17</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Magnesium</b>	<b>69</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Nickel</b>	<b>0.31</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Potassium</b>	<b>45</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 23:05	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Vanadium</b>	<b>0.25</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:05	1
<b>Zinc</b>	<b>0.67</b>	<b>B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 23:05	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:27	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:29	1
<b>Thallium</b>	<b>0.0050</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:29	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B90 (0-2)**

**Lab Sample ID: 500-100833-17**

Date Collected: 09/03/15 17:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 10:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0061	mg/Kg	☼	09/10/15 15:00	09/11/15 15:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:41	1
pH	8.33		0.200	0.200	SU			09/10/15 17:55	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/09/15 21:18	1
Dibromofluoromethane	101		75 - 120	09/04/15 14:10	09/09/15 21:18	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	09/04/15 14:10	09/09/15 21:18	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 21:18	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	09/09/15 07:26	09/11/15 01:55	1
2-Fluorophenol	70		25 - 110	09/09/15 07:26	09/11/15 01:55	1
Nitrobenzene-d5	59		25 - 115	09/09/15 07:26	09/11/15 01:55	1
Phenol-d5	66		31 - 110	09/09/15 07:26	09/11/15 01:55	1
Terphenyl-d14	83		36 - 134	09/09/15 07:26	09/11/15 01:55	1
2,4,6-Tribromophenol	69		35 - 137	09/09/15 07:26	09/11/15 01:55	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.46</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Arsenic</b>	<b>4.9</b>		0.57	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Barium</b>	<b>50</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Beryllium</b>	<b>0.58</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 04:08	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.57	0.099	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Cobalt</b>	<b>7.7</b>		0.29	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Copper</b>	<b>18</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Lead</b>	<b>9.5</b>		0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Magnesium</b>	<b>25000</b>		5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Calcium</b>	<b>74000</b>	<b>B</b>	110	37	mg/Kg	☼	09/08/15 12:00	09/10/15 04:14	10
<b>Manganese</b>	<b>330</b>		0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Nickel</b>	<b>21</b>	<b>B</b>	0.57	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Selenium</b>	<b>0.59</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Silver</b>	<b>0.079</b>	<b>J</b>	0.29	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Thallium</b>	<b>0.77</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Vanadium</b>	<b>18</b>		0.29	0.084	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Zinc</b>	<b>39</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Potassium</b>	<b>2800</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1
<b>Sodium</b>	<b>1400</b>		57	7.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:35	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

Date Collected: 09/03/15 17:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>720</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 18:53	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:37	1
<b>Magnesium</b>	<b>35</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:37	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
<b>Potassium</b>	<b>1.1</b>	<b>J</b>	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:37	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:37	1
<b>Zinc</b>	<b>0.082</b>	<b>J</b>	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:37	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.032</b>	<b>J</b>	0.050	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Barium</b>	<b>0.47</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 23:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 23:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Calcium</b>	<b>64</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Chromium</b>	<b>0.064</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Copper</b>	<b>0.074</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Iron</b>	<b>64</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Lead</b>	<b>0.043</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Magnesium</b>	<b>29</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Manganese</b>	<b>0.33</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Nickel</b>	<b>0.067</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Potassium</b>	<b>15</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 23:28	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Vanadium</b>	<b>0.086</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:28	1
<b>Zinc</b>	<b>0.28</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 23:28	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:28	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:30	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 10:02	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.026</b>		0.017	0.0060	mg/Kg	☼	09/10/15 15:00	09/11/15 15:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 12:20	09/10/15 14:42	1
pH	<b>8.38</b>		0.200	0.200	SU			09/10/15 18:00	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

**Date Collected: 09/03/15 16:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	09/04/15 14:10	09/09/15 21:43	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 21:43	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 14:10	09/09/15 21:43	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/09/15 21:43	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

**Date Collected: 09/03/15 16:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

**Date Collected: 09/03/15 16:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:26	09/11/15 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	09/09/15 07:26	09/11/15 02:22	1
2-Fluorophenol	84		25 - 110	09/09/15 07:26	09/11/15 02:22	1
Nitrobenzene-d5	71		25 - 115	09/09/15 07:26	09/11/15 02:22	1
Phenol-d5	82		31 - 110	09/09/15 07:26	09/11/15 02:22	1
Terphenyl-d14	80		36 - 134	09/09/15 07:26	09/11/15 02:22	1
2,4,6-Tribromophenol	67		35 - 137	09/09/15 07:26	09/11/15 02:22	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Arsenic</b>	<b>5.9</b>		0.57	0.26	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Barium</b>	<b>29</b>		0.57	0.10	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Beryllium</b>	<b>0.48</b>		0.23	0.049	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 04:18	1
<b>Chromium</b>	<b>13 B</b>		0.57	0.098	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Cobalt</b>	<b>8.0</b>		0.28	0.064	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Copper</b>	<b>18</b>		0.57	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Iron</b>	<b>14000 B</b>		11	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Lead</b>	<b>9.6</b>		0.28	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Magnesium</b>	<b>35000</b>		5.7	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Calcium</b>	<b>76000 B</b>		110	37	mg/Kg	☼	09/08/15 12:00	09/10/15 04:23	10
<b>Manganese</b>	<b>330</b>		0.57	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Nickel</b>	<b>20 B</b>		0.57	0.15	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Selenium</b>	<b>0.58</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Thallium</b>	<b>0.71</b>		0.57	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Vanadium</b>	<b>14</b>		0.28	0.083	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Zinc</b>	<b>33 B</b>		1.1	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Potassium</b>	<b>2800</b>		28	4.6	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1
<b>Sodium</b>	<b>1100</b>		57	7.5	mg/Kg	☼	09/08/15 12:00	09/09/15 06:58	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Barium</b>	<b>0.36 J</b>		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 18:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Cadmium</b>	<b>0.0024 J</b>		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 18:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

Date Collected: 09/03/15 16:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.7

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1100</b>		25	5.0	mg/L		09/14/15 09:30	09/15/15 14:31	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Cobalt</b>	<b>0.040</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 18:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Magnesium</b>	<b>300</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Manganese</b>	<b>4.1</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Nickel</b>	<b>0.041</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Potassium</b>	<b>3.5</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 18:30	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:30	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 18:30	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.048</b>	<b>J</b>	0.050	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Barium</b>	<b>0.38</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Beryllium</b>	<b>0.0050</b>		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 23:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Calcium</b>	<b>87</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Chromium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Lead</b>	<b>0.065</b>		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Magnesium</b>	<b>47</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Potassium</b>	<b>29</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 23:35	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:35	1
<b>Zinc</b>	<b>0.32</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 23:35	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:34	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:30	1
<b>Thallium</b>	<b>0.0026</b>		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:30	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:05	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

Date Collected: 09/03/15 16:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:14	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0060	mg/Kg	☼	09/10/15 15:00	09/11/15 15:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:43	1
pH	8.40		0.200	0.200	SU			09/10/15 18:04	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	09/04/15 14:10	09/09/15 22:08	1
Dibromofluoromethane	108		75 - 120	09/04/15 14:10	09/09/15 22:08	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	09/04/15 14:10	09/09/15 22:08	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 22:08	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

Date Collected: 09/03/15 16:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.4

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
<b>Phenanthrene</b>	<b>0.026</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
<b>Pyrene</b>	<b>0.0086</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:26	09/12/15 01:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	73		25 - 119				09/09/15 07:26	09/12/15 01:05	1
2-Fluorophenol	78		25 - 110				09/09/15 07:26	09/12/15 01:05	1
Nitrobenzene-d5	65		25 - 115				09/09/15 07:26	09/12/15 01:05	1
Phenol-d5	77		31 - 110				09/09/15 07:26	09/12/15 01:05	1
Terphenyl-d14	78		36 - 134				09/09/15 07:26	09/12/15 01:05	1
2,4,6-Tribromophenol	67		35 - 137				09/09/15 07:26	09/12/15 01:05	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.37</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Arsenic</b>	<b>4.2</b>		0.58	0.27	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Barium</b>	<b>38</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Beryllium</b>	<b>0.64</b>		0.23	0.050	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Cadmium</b>	<b>0.20</b>		0.12	0.033	mg/Kg	☼	09/08/15 12:00	09/10/15 04:27	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Cobalt</b>	<b>14</b>		0.29	0.065	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Copper</b>	<b>21</b>		0.58	0.12	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	12	4.4	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Lead</b>	<b>9.9</b>		0.29	0.14	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Magnesium</b>	<b>31000</b>		5.8	2.3	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Calcium</b>	<b>57000</b>	<b>B</b>	12	3.7	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Manganese</b>	<b>320</b>		0.58	0.11	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Nickel</b>	<b>29</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Selenium</b>	<b>1.0</b>		0.58	0.29	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Silver</b>	<b>0.090</b>	<b>J</b>	0.29	0.067	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Thallium</b>	<b>0.84</b>		0.58	0.28	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Vanadium</b>	<b>20</b>		0.29	0.084	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Zinc</b>	<b>39</b>	<b>B</b>	1.2	0.36	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Potassium</b>	<b>3900</b>		29	4.7	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1
<b>Sodium</b>	<b>810</b>		58	7.6	mg/Kg	☼	09/08/15 12:00	09/09/15 07:04	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 14:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Cadmium</b>	<b>0.0048</b>	<b>J</b>	0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 14:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

Date Collected: 09/03/15 16:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.4

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1300</b>	<b>B</b>	25	5.0	mg/L		09/13/15 18:10	09/15/15 19:08	10
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Cobalt</b>	<b>0.080</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Iron</b>	<b>0.32</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 14:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Magnesium</b>	<b>260</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Manganese</b>	<b>3.3</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Nickel</b>	<b>0.043</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Potassium</b>	<b>3.0</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 14:43	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 14:43	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 14:43	1
<b>Zinc</b>	<b>0.16</b>		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 14:43	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
<b>Barium</b>	<b>0.081</b>	<b>J B</b>	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 23:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 23:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 23:42	1
<b>Calcium</b>	<b>14</b>	<b>B</b>	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 23:42	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
Copper	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
<b>Iron</b>	<b>2.9</b>		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 23:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 23:42	1
<b>Magnesium</b>	<b>4.5</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:42	1
<b>Manganese</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
<b>Potassium</b>	<b>2.8</b>	<b>B</b>	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 23:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 23:42	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
Vanadium	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 23:42	1
<b>Zinc</b>	<b>0.20</b>	<b>J B</b>	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 23:42	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:29	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:31	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

Date Collected: 09/03/15 16:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 10:04	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0068	mg/Kg	☼	09/10/15 15:00	09/11/15 15:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 12:20	09/10/15 14:43	1
pH	8.17		0.200	0.200	SU			09/10/15 18:09	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B94 (0-2)**

**Lab Sample ID: 500-100833-21**

**Date Collected: 09/03/15 16:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	09/04/15 14:10	09/09/15 22:33	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 22:33	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 14:10	09/09/15 22:33	1
Toluene-d8 (Surr)	119		75 - 122	09/04/15 14:10	09/09/15 22:33	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B94 (0-2)**

**Lab Sample ID: 500-100833-21**

**Date Collected: 09/03/15 16:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Benzo[g,h,i]perylene	<0.037	F1	0.037	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Di-n-octyl phthalate	<0.19	F2	0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B94 (0-2)**

**Lab Sample ID: 500-100833-21**

Date Collected: 09/03/15 16:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.4

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/09/15 07:17	09/11/15 14:51	1
2-Fluorophenol	84		25 - 110	09/09/15 07:17	09/11/15 14:51	1
Nitrobenzene-d5	103		25 - 115	09/09/15 07:17	09/11/15 14:51	1
Phenol-d5	88		31 - 110	09/09/15 07:17	09/11/15 14:51	1
Terphenyl-d14	100		36 - 134	09/09/15 07:17	09/11/15 14:51	1
2,4,6-Tribromophenol	97		35 - 137	09/09/15 07:17	09/11/15 14:51	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.54</b>	<b>J F1</b>	1.1	0.23	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Arsenic</b>	<b>7.5</b>		0.56	0.26	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Barium</b>	<b>41</b>		0.56	0.10	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Beryllium</b>	<b>0.70</b>		0.22	0.049	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Cadmium</b>	<b>0.43</b>		0.11	0.033	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Chromium</b>	<b>19</b>		0.56	0.097	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Cobalt</b>	<b>14</b>	<b>F1</b>	0.28	0.063	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Copper</b>	<b>24</b>		0.56	0.12	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Lead</b>	<b>17</b>	<b>F1</b>	0.28	0.14	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Magnesium</b>	<b>33000</b>	<b>F2</b>	5.6	2.3	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Calcium</b>	<b>89000</b>		110	36	mg/Kg	☼	09/09/15 16:07	09/11/15 18:33	10
<b>Manganese</b>	<b>510</b>		0.56	0.11	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Nickel</b>	<b>31</b>	<b>F1</b>	0.56	0.15	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
Selenium	<0.56	F1	0.56	0.28	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Thallium</b>	<b>1.4</b>	<b>F1</b>	0.56	0.28	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Vanadium</b>	<b>22</b>		0.28	0.082	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Zinc</b>	<b>45</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Potassium</b>	<b>3400</b>		28	4.6	mg/Kg	☼	09/09/15 16:07	09/10/15 22:22	1
<b>Sodium</b>	<b>3500</b>		560	74	mg/Kg	☼	09/09/15 16:07	09/11/15 18:33	10

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 09:30	09/14/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 18:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B94 (0-2)**

**Lab Sample ID: 500-100833-21**

Date Collected: 09/03/15 16:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.4

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	870		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
Cobalt	0.034		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 18:57	1
Magnesium	290		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:57	1
Manganese	4.0		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
Nickel	0.038		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
Potassium	1.8	J	2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
Vanadium	0.011	J	0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:57	1
Zinc	0.21		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 18:57	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.099		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Barium	0.66		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:17	1
Beryllium	0.0091		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:17	1
Calcium	81		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:17	1
Chromium	0.21		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Cobalt	0.063		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Copper	0.29		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Iron	220		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:17	1
Lead	0.13		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:17	1
Magnesium	64		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:17	1
Manganese	0.99		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Nickel	0.25		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Potassium	44		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:17	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Vanadium	0.23		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:17	1
Zinc	0.72		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:17	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:38	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:34	1
Thallium	0.0051		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:34	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B94 (0-2)**

**Lab Sample ID: 500-100833-21**

**Date Collected: 09/03/15 16:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 17:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 12:20	09/10/15 14:43	1
pH	8.62		0.200	0.200	SU			09/10/15 18:13	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 (0-2)**

**Lab Sample ID: 500-100833-22**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/09/15 22:58	1
Dibromofluoromethane	105		75 - 120	09/04/15 14:10	09/09/15 22:58	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	09/04/15 14:10	09/09/15 22:58	1
Toluene-d8 (Surr)	117		75 - 122	09/04/15 14:10	09/09/15 22:58	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 (0-2)**

**Lab Sample ID: 500-100833-22**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 (0-2)**

**Lab Sample ID: 500-100833-22**

Date Collected: 09/03/15 16:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 15:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	78		25 - 119				09/09/15 07:17	09/11/15 15:19	1
2-Fluorophenol	77		25 - 110				09/09/15 07:17	09/11/15 15:19	1
Nitrobenzene-d5	85		25 - 115				09/09/15 07:17	09/11/15 15:19	1
Phenol-d5	73		31 - 110				09/09/15 07:17	09/11/15 15:19	1
Terphenyl-d14	106		36 - 134				09/09/15 07:17	09/11/15 15:19	1
2,4,6-Tribromophenol	76		35 - 137				09/09/15 07:17	09/11/15 15:19	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.41</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Arsenic</b>	<b>7.6</b>		0.55	0.26	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Barium</b>	<b>38</b>		0.55	0.10	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Beryllium</b>	<b>0.72</b>		0.22	0.048	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Cadmium</b>	<b>0.38</b>		0.11	0.032	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Chromium</b>	<b>19</b>		0.55	0.095	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Cobalt</b>	<b>11</b>		0.28	0.063	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Copper</b>	<b>23</b>		0.55	0.12	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Lead</b>	<b>16</b>		0.28	0.14	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Magnesium</b>	<b>43000</b>		5.5	2.3	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Calcium</b>	<b>100000</b>		110	36	mg/Kg	☼	09/09/15 16:07	09/11/15 18:53	10
<b>Manganese</b>	<b>400</b>		0.55	0.11	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Nickel</b>	<b>25</b>		0.55	0.15	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Thallium</b>	<b>1.4</b>		0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Vanadium</b>	<b>23</b>		0.28	0.081	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Zinc</b>	<b>44</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Potassium</b>	<b>3400</b>		28	4.5	mg/Kg	☼	09/09/15 16:07	09/10/15 22:56	1
<b>Sodium</b>	<b>3400</b>		550	73	mg/Kg	☼	09/09/15 16:07	09/11/15 18:53	10

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 09:30	09/14/15 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 19:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 (0-2)**

**Lab Sample ID: 500-100833-22**

Date Collected: 09/03/15 16:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.6

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>940</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
<b>Cobalt</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 19:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 19:04	1
<b>Magnesium</b>	<b>250</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:04	1
<b>Manganese</b>	<b>3.8</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
<b>Nickel</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
<b>Potassium</b>	<b>2.2 J</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 19:04	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:04	1
<b>Zinc</b>	<b>0.080 J</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 19:04	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.10</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Beryllium</b>	<b>0.0094</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Calcium</b>	<b>81</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Chromium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Cobalt</b>	<b>0.072</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Copper</b>	<b>0.30</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Iron</b>	<b>240</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Magnesium</b>	<b>67</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Nickel</b>	<b>0.29</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Potassium</b>	<b>43</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:24	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:24	1
<b>Zinc</b>	<b>0.63</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:24	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:39	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:35	1
<b>Thallium</b>	<b>0.0042</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:35	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 (0-2)**

**Lab Sample ID: 500-100833-22**

Date Collected: 09/03/15 16:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 15:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.018	0.0061	mg/Kg	☼	09/10/15 15:00	09/11/15 15:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/10/15 12:20	09/10/15 14:44	1
pH	8.63		0.200	0.200	SU			09/10/15 18:17	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

**Date Collected: 09/03/15 16:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 14:10	09/09/15 23:23	1
Dibromofluoromethane	104		75 - 120	09/04/15 14:10	09/09/15 23:23	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/09/15 23:23	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/09/15 23:23	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
<b>Benzo[a]anthracene</b>	<b>0.010</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

**Date Collected: 09/03/15 16:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0088</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
<b>Benzo[b]fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
<b>Fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

Date Collected: 09/03/15 16:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
<b>Phenanthrene</b>	<b>0.016</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
<b>Pyrene</b>	<b>0.022</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 15:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	92		25 - 119				09/09/15 07:17	09/11/15 15:47	1
2-Fluorophenol	78		25 - 110				09/09/15 07:17	09/11/15 15:47	1
Nitrobenzene-d5	96		25 - 115				09/09/15 07:17	09/11/15 15:47	1
Phenol-d5	79		31 - 110				09/09/15 07:17	09/11/15 15:47	1
Terphenyl-d14	100		36 - 134				09/09/15 07:17	09/11/15 15:47	1
2,4,6-Tribromophenol	96		35 - 137				09/09/15 07:17	09/11/15 15:47	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.49</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Arsenic</b>	<b>8.5</b>		0.54	0.25	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Barium</b>	<b>45</b>		0.54	0.099	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Beryllium</b>	<b>0.77</b>		0.22	0.047	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.031	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Chromium</b>	<b>20</b>		0.54	0.093	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Cobalt</b>	<b>16</b>		0.27	0.061	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Copper</b>	<b>23</b>		0.54	0.12	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Lead</b>	<b>15</b>		0.27	0.13	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Magnesium</b>	<b>29000</b>		5.4	2.2	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Calcium</b>	<b>47000</b>		11	3.5	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Manganese</b>	<b>520</b>		0.54	0.11	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Nickel</b>	<b>29</b>		0.54	0.15	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Thallium</b>	<b>1.1</b>		0.54	0.27	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Vanadium</b>	<b>27</b>		0.27	0.079	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Potassium</b>	<b>3200</b>		27	4.4	mg/Kg	☼	09/09/15 16:07	09/10/15 23:02	1
<b>Sodium</b>	<b>4300</b>		540	71	mg/Kg	☼	09/09/15 16:07	09/11/15 19:04	10

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 09:30	09/14/15 19:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 19:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

**Date Collected: 09/03/15 16:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>850</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:11	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 19:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Magnesium</b>	<b>310</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Manganese</b>	<b>4.3</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Potassium</b>	<b>1.9 J</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 19:11	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:11	1
<b>Zinc</b>	<b>0.096 J</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 19:11	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.10</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Beryllium</b>	<b>0.0084</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Calcium</b>	<b>66</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Cobalt</b>	<b>0.064</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Copper</b>	<b>0.30</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Magnesium</b>	<b>59</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Nickel</b>	<b>0.26</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Potassium</b>	<b>40</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:31	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:31	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:31	1
<b>Zinc</b>	<b>0.62</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:31	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:40	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:36	1
<b>Thallium</b>	<b>0.0045</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:36	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

Date Collected: 09/03/15 16:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:35	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 15:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:31	1
pH	8.49		0.200	0.200	SU			09/10/15 18:48	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

**Date Collected: 09/03/15 16:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	09/04/15 14:10	09/09/15 23:48	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 23:48	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 14:10	09/09/15 23:48	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 23:48	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

**Date Collected: 09/03/15 16:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.036	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

Date Collected: 09/03/15 16:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
<b>Phenanthrene</b>	<b>0.0076</b>	<b>J</b>	0.036	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Pyrene	<0.036		0.036	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119				09/09/15 07:17	09/11/15 16:14	1
2-Fluorophenol	77		25 - 110				09/09/15 07:17	09/11/15 16:14	1
Nitrobenzene-d5	95		25 - 115				09/09/15 07:17	09/11/15 16:14	1
Phenol-d5	77		31 - 110				09/09/15 07:17	09/11/15 16:14	1
Terphenyl-d14	88		36 - 134				09/09/15 07:17	09/11/15 16:14	1
2,4,6-Tribromophenol	76		35 - 137				09/09/15 07:17	09/11/15 16:14	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.33</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Arsenic</b>	<b>6.0</b>		0.53	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Barium</b>	<b>37</b>		0.53	0.097	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Beryllium</b>	<b>0.60</b>		0.21	0.046	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.031	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Chromium</b>	<b>15</b>		0.53	0.091	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Cobalt</b>	<b>13</b>		0.26	0.060	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Copper</b>	<b>22</b>		0.53	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	11	4.1	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Lead</b>	<b>16</b>		0.26	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Magnesium</b>	<b>39000</b>		5.3	2.1	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Calcium</b>	<b>92000</b>		110	34	mg/Kg	☼	09/09/15 16:07	09/11/15 19:13	10
<b>Manganese</b>	<b>410</b>		0.53	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Nickel</b>	<b>31</b>		0.53	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Selenium</b>	<b>0.31</b>	<b>J</b>	0.53	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Thallium</b>	<b>0.29</b>	<b>J</b>	0.53	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Vanadium</b>	<b>18</b>		0.26	0.077	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Zinc</b>	<b>58</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Potassium</b>	<b>2500</b>		26	4.3	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1
<b>Sodium</b>	<b>2300</b>		53	7.0	mg/Kg	☼	09/09/15 16:07	09/11/15 19:08	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 09:30	09/14/15 19:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 19:18	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

Date Collected: 09/03/15 16:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>850</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Cobalt</b>	<b>0.045</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Iron</b>	<b>1.8</b>		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 19:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Magnesium</b>	<b>250</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Manganese</b>	<b>7.1</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 19:18	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:18	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 19:18	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Beryllium</b>	<b>0.0084</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Calcium</b>	<b>91</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Cobalt</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Copper</b>	<b>0.33</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Magnesium</b>	<b>70</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Nickel</b>	<b>0.32</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Potassium</b>	<b>44</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:37	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Vanadium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:37	1
<b>Zinc</b>	<b>0.73</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:37	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:43	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:37	1
<b>Thallium</b>	<b>0.0044</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:37	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

Date Collected: 09/03/15 16:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0060	mg/Kg	☼	09/10/15 15:00	09/11/15 15:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/10/15 14:15	09/10/15 16:31	1
pH	8.75		0.200	0.200	SU			09/10/15 18:53	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

**Date Collected: 09/03/15 15:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	09/04/15 14:10	09/10/15 00:13	1
Dibromofluoromethane	105		75 - 120	09/04/15 14:10	09/10/15 00:13	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 14:10	09/10/15 00:13	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/10/15 00:13	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

**Date Collected: 09/03/15 15:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

**Date Collected: 09/03/15 15:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	09/09/15 07:17	09/11/15 16:42	1
2-Fluorophenol	80		25 - 110	09/09/15 07:17	09/11/15 16:42	1
Nitrobenzene-d5	84		25 - 115	09/09/15 07:17	09/11/15 16:42	1
Phenol-d5	75		31 - 110	09/09/15 07:17	09/11/15 16:42	1
Terphenyl-d14	87		36 - 134	09/09/15 07:17	09/11/15 16:42	1
2,4,6-Tribromophenol	97		35 - 137	09/09/15 07:17	09/11/15 16:42	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Arsenic</b>	<b>8.0</b>		0.56	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Barium</b>	<b>43</b>		0.56	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Beryllium</b>	<b>0.67</b>		0.23	0.049	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.033	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Chromium</b>	<b>16</b>		0.56	0.097	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Copper</b>	<b>25</b>		0.56	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Iron</b>	<b>20000 B</b>		11	4.3	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Lead</b>	<b>16</b>		0.28	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Magnesium</b>	<b>30000</b>		5.6	2.3	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Calcium</b>	<b>88000</b>		110	36	mg/Kg	☼	09/09/15 16:07	09/11/15 19:22	10
<b>Manganese</b>	<b>360</b>		0.56	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Nickel</b>	<b>29</b>		0.56	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Vanadium</b>	<b>20</b>		0.28	0.082	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Zinc</b>	<b>61 B</b>		1.1	0.36	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Potassium</b>	<b>1900</b>		28	4.6	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1
<b>Sodium</b>	<b>1900</b>		56	7.4	mg/Kg	☼	09/09/15 16:07	09/11/15 19:17	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Barium</b>	<b>0.39 J</b>		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 19:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Cadmium</b>	<b>0.0025 J</b>		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 19:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

**Date Collected: 09/03/15 15:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1200</b>		25	5.0	mg/L		09/14/15 09:30	09/15/15 14:47	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Cobalt</b>	<b>0.043</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Magnesium</b>	<b>260</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Manganese</b>	<b>5.7</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Potassium</b>	<b>1.4 J</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 19:40	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:40	1
<b>Zinc</b>	<b>0.064 J</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 19:40	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.040 J</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Barium</b>	<b>0.38 J</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Calcium</b>	<b>36</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Chromium</b>	<b>0.073</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Cobalt</b>	<b>0.029</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Copper</b>	<b>0.099</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Iron</b>	<b>82</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Lead</b>	<b>0.039</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Nickel</b>	<b>0.099</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:44	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Vanadium</b>	<b>0.087</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:44	1
<b>Zinc</b>	<b>0.26</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:44	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:44	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:40	1
<b>Thallium</b>	<b>0.0022</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:40	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

Date Collected: 09/03/15 15:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 15:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:31	1
pH	8.38		0.200	0.200	SU			09/10/15 18:57	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 14:10	09/10/15 11:48	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/10/15 11:48	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/10/15 11:48	1
Toluene-d8 (Surr)	110		75 - 122	09/04/15 14:10	09/10/15 11:48	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
<b>Benzo[a]anthracene</b>	<b>0.0078</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
<b>Benzo[b]fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0083	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
<b>Chrysene</b>	<b>0.011</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
<b>Fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

Date Collected: 09/03/15 15:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
<b>Pyrene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/09/15 07:17	09/11/15 17:10	1
2-Fluorophenol	77		25 - 110	09/09/15 07:17	09/11/15 17:10	1
Nitrobenzene-d5	89		25 - 115	09/09/15 07:17	09/11/15 17:10	1
Phenol-d5	69		31 - 110	09/09/15 07:17	09/11/15 17:10	1
Terphenyl-d14	97		36 - 134	09/09/15 07:17	09/11/15 17:10	1
2,4,6-Tribromophenol	91		35 - 137	09/09/15 07:17	09/11/15 17:10	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.26</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Arsenic</b>	<b>6.4</b>		0.57	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Barium</b>	<b>55</b>		0.57	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Beryllium</b>	<b>0.70</b>		0.23	0.049	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Cadmium</b>	<b>0.24</b>		0.11	0.033	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Chromium</b>	<b>17</b>		0.57	0.098	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Copper</b>	<b>19</b>		0.57	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Lead</b>	<b>33</b>		0.28	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Magnesium</b>	<b>26000</b>		5.7	2.3	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Calcium</b>	<b>79000</b>		110	37	mg/Kg	☼	09/09/15 16:07	09/11/15 19:31	10
<b>Manganese</b>	<b>300</b>		0.57	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Nickel</b>	<b>30</b>		0.57	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Vanadium</b>	<b>20</b>		0.28	0.083	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Zinc</b>	<b>63</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Potassium</b>	<b>2400</b>		28	4.6	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1
<b>Sodium</b>	<b>1200</b>		57	7.5	mg/Kg	☼	09/09/15 16:07	09/11/15 19:26	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 09:30	09/14/15 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

Date Collected: 09/03/15 15:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.5

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1200</b>		25	5.0	mg/L		09/14/15 09:30	09/15/15 14:51	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Cobalt</b>	<b>0.041</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 19:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Magnesium</b>	<b>180</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Manganese</b>	<b>4.6</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Potassium</b>	<b>1.7 J</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 19:47	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:47	1
<b>Zinc</b>	<b>0.21</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 19:47	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.056</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Beryllium</b>	<b>0.0049</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Calcium</b>	<b>86</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Copper</b>	<b>0.15</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Lead</b>	<b>0.097</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Magnesium</b>	<b>43</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Manganese</b>	<b>0.76</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Potassium</b>	<b>22</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:51	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Vanadium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:51	1
<b>Zinc</b>	<b>0.39</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:51	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:45	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:41	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

Date Collected: 09/03/15 15:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:41	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.017	0.0061	mg/Kg	☼	09/10/15 15:00	09/11/15 15:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:32	1
pH	8.47		0.200	0.200	SU			09/10/15 19:02	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

**Date Collected: 09/03/15 15:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Bromodichloromethane	<0.0054		0.0054	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Vinyl acetate	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/10/15 12:13	1
Dibromofluoromethane	101		75 - 120	09/04/15 14:10	09/10/15 12:13	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 14:10	09/10/15 12:13	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 14:10	09/10/15 12:13	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

**Date Collected: 09/03/15 15:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
<b>Benzo[b]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.042	0.0091	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
<b>Fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.042	0.0078	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

Date Collected: 09/03/15 15:05

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 76.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
<b>Pyrene</b>	<b>0.011</b>	<b>J</b>	0.042	0.0084	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119				09/09/15 07:17	09/11/15 17:38	1
2-Fluorophenol	85		25 - 110				09/09/15 07:17	09/11/15 17:38	1
Nitrobenzene-d5	95		25 - 115				09/09/15 07:17	09/11/15 17:38	1
Phenol-d5	80		31 - 110				09/09/15 07:17	09/11/15 17:38	1
Terphenyl-d14	108		36 - 134				09/09/15 07:17	09/11/15 17:38	1
2,4,6-Tribromophenol	113		35 - 137				09/09/15 07:17	09/11/15 17:38	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.51</b>	<b>J</b>	1.2	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Arsenic</b>	<b>10</b>		0.62	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Barium</b>	<b>81</b>		0.62	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Beryllium</b>	<b>0.83</b>		0.25	0.053	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Cadmium</b>	<b>0.29</b>		0.12	0.036	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Chromium</b>	<b>20</b>		0.62	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Cobalt</b>	<b>15</b>		0.31	0.070	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Copper</b>	<b>23</b>		0.62	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Iron</b>	<b>28000</b>	<b>B</b>	12	4.8	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Lead</b>	<b>35</b>		0.31	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Magnesium</b>	<b>16000</b>		6.2	2.5	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Calcium</b>	<b>27000</b>		12	4.0	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Manganese</b>	<b>1200</b>		0.62	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Nickel</b>	<b>32</b>		0.62	0.17	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Selenium</b>	<b>0.71</b>		0.62	0.31	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.62	0.30	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Vanadium</b>	<b>27</b>		0.31	0.090	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Zinc</b>	<b>75</b>	<b>B</b>	1.2	0.39	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Potassium</b>	<b>2400</b>		31	5.0	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1
<b>Sodium</b>	<b>3400</b>		62	8.1	mg/Kg	☼	09/09/15 16:07	09/11/15 19:36	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 19:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 19:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 19:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

Date Collected: 09/03/15 15:05

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 76.6

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:54	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Iron</b>	<b>0.34</b>		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 19:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Magnesium</b>	<b>43</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Potassium</b>	<b>4.4</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 19:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 19:54	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 19:54	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 19:54	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.064</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Beryllium</b>	<b>0.0051</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Calcium</b>	<b>33</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Cobalt</b>	<b>0.060</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Copper</b>	<b>0.16</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Iron</b>	<b>140</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Magnesium</b>	<b>26</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Potassium</b>	<b>23</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:58	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Vanadium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:58	1
<b>Zinc</b>	<b>0.37</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:58	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:46	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:42	1
<b>Thallium</b>	<b>0.0025</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:42	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:34	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

**Date Collected: 09/03/15 15:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.020	0.0071	mg/Kg	☼	09/10/15 15:00	09/11/15 15:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	09/10/15 14:15	09/10/15 16:32	1
pH	8.08		0.200	0.200	SU			09/10/15 19:10	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

Date Collected: 09/03/15 14:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.3

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Bromoform	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Chloroform	<0.0045		0.0045	0.00089	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,1-Dichloroethane	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,1-Dichloroethene	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Tetrachloroethene	<0.0045		0.0045	0.00095	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 14:10	09/10/15 12:38	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/10/15 12:38	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 14:10	09/10/15 12:38	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 14:10	09/10/15 12:38	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
<b>Benzo[a]anthracene</b>	<b>0.039</b>		0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

**Date Collected: 09/03/15 14:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.043		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Benzo[b]fluoranthene	0.079		0.038	0.0083	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Benzo[k]fluoranthene	0.036	J	0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Chrysene	0.058		0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,4-Dinitrotoluene	0.097	J	0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Fluoranthene	0.067		0.038	0.0071	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.038	0.0099	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Naphthalene	0.0063	J	0.038	0.0059	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

Date Collected: 09/03/15 14:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
<b>Phenanthrene</b>	<b>0.048</b>		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
<b>Pyrene</b>	<b>0.11</b>		0.038	0.0076	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/12/15 04:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	83		25 - 119				09/09/15 07:17	09/12/15 04:08	1
2-Fluorophenol	88		25 - 110				09/09/15 07:17	09/12/15 04:08	1
Nitrobenzene-d5	75		25 - 115				09/09/15 07:17	09/12/15 04:08	1
Phenol-d5	85		31 - 110				09/09/15 07:17	09/12/15 04:08	1
Terphenyl-d14	135	X	36 - 134				09/09/15 07:17	09/12/15 04:08	1
2,4,6-Tribromophenol	76		35 - 137				09/09/15 07:17	09/12/15 04:08	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Arsenic</b>	<b>8.7</b>		0.55	0.25	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Barium</b>	<b>59</b>		0.55	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Beryllium</b>	<b>0.75</b>		0.22	0.047	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Cadmium</b>	<b>0.26</b>		0.11	0.032	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Chromium</b>	<b>17</b>		0.55	0.094	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Cobalt</b>	<b>13</b>		0.27	0.062	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Copper</b>	<b>24</b>		0.55	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Lead</b>	<b>20</b>		0.27	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Magnesium</b>	<b>21000</b>		5.5	2.2	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Calcium</b>	<b>48000</b>		110	35	mg/Kg	☼	09/09/15 16:07	09/14/15 14:15	10
<b>Manganese</b>	<b>430</b>		0.55	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Nickel</b>	<b>33</b>		0.55	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Selenium</b>	<b>0.39</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Thallium</b>	<b>0.39</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Vanadium</b>	<b>23</b>		0.27	0.080	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Zinc</b>	<b>70</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Potassium</b>	<b>2100</b>		27	4.5	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1
<b>Sodium</b>	<b>2200</b>		55	7.2	mg/Kg	☼	09/09/15 16:07	09/11/15 19:44	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 20:01	1
<b>Cadmium</b>	<b>0.0049</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 20:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

Date Collected: 09/03/15 14:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	740		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:01	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
Cobalt	0.072		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
Copper	0.011	J	0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
Iron	21		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 20:01	1
Lead	0.081		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 20:01	1
Magnesium	200		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:01	1
Manganese	14		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
Nickel	0.084		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
Potassium	2.6		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 20:01	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:01	1
Zinc	0.26		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 20:01	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.067		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Barium	0.60		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 03:04	1
Beryllium	0.0057		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 03:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 03:04	1
Calcium	35		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:04	1
Chromium	0.13		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Cobalt	0.062		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Copper	0.18		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Iron	150		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 03:04	1
Lead	0.29		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 03:04	1
Magnesium	27		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:04	1
Manganese	1.9		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Nickel	0.16		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Potassium	24		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 03:04	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Vanadium	0.17		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:04	1
Zinc	0.49		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 03:04	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:47	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:43	1
Thallium	0.0028		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:43	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

Date Collected: 09/03/15 14:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:45	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0067	mg/Kg	☼	09/10/15 15:00	09/11/15 15:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:32	1
pH	8.52		0.200	0.200	SU			09/10/15 19:15	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

**Date Collected: 09/03/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 14:10	09/10/15 13:03	1
Dibromofluoromethane	104		75 - 120	09/04/15 14:10	09/10/15 13:03	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	09/04/15 14:10	09/10/15 13:03	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/10/15 13:03	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

**Date Collected: 09/03/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

**Date Collected: 09/03/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	09/09/15 07:17	09/11/15 18:05	1
2-Fluorophenol	66		25 - 110	09/09/15 07:17	09/11/15 18:05	1
Nitrobenzene-d5	76		25 - 115	09/09/15 07:17	09/11/15 18:05	1
Phenol-d5	62		31 - 110	09/09/15 07:17	09/11/15 18:05	1
Terphenyl-d14	88		36 - 134	09/09/15 07:17	09/11/15 18:05	1
2,4,6-Tribromophenol	61		35 - 137	09/09/15 07:17	09/11/15 18:05	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.38</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Arsenic</b>	<b>8.7</b>		0.59	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Barium</b>	<b>74</b>		0.59	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Beryllium</b>	<b>0.78</b>		0.23	0.051	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Cadmium</b>	<b>0.22</b>		0.12	0.034	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Chromium</b>	<b>18</b>		0.59	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Copper</b>	<b>24</b>		0.59	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Lead</b>	<b>20</b>		0.29	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Magnesium</b>	<b>14000</b>		5.9	2.4	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Calcium</b>	<b>27000</b>		12	3.8	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Manganese</b>	<b>370</b>		0.59	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Nickel</b>	<b>34</b>		0.59	0.16	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Vanadium</b>	<b>25</b>		0.29	0.086	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Zinc</b>	<b>74</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Potassium</b>	<b>2000</b>		29	4.8	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1
<b>Sodium</b>	<b>2800</b>		59	7.8	mg/Kg	☼	09/09/15 16:07	09/11/15 19:57	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Barium</b>	<b>0.70</b>		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 20:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

Date Collected: 09/03/15 14:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.7

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>810</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:07	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Cobalt</b>	<b>0.050</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Iron</b>	<b>5.8</b>		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Lead</b>	<b>0.019</b>		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Magnesium</b>	<b>220</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Manganese</b>	<b>14</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Nickel</b>	<b>0.043</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Potassium</b>	<b>1.9 J</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:07	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 20:07	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:07	1
<b>Zinc</b>	<b>0.089 J</b>		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 20:07	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Barium</b>	<b>0.97</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Beryllium</b>	<b>0.0083</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 03:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Calcium</b>	<b>50</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Chromium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Cobalt</b>	<b>0.094</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Copper</b>	<b>0.27</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Lead</b>	<b>0.15</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Magnesium</b>	<b>41</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Manganese</b>	<b>3.2</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Potassium</b>	<b>29</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:27	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 03:27	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Vanadium</b>	<b>0.25</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:27	1
<b>Zinc</b>	<b>0.55</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 03:27	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:48	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:44	1
<b>Thallium</b>	<b>0.0041</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:44	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

Date Collected: 09/03/15 14:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:58	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 15:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:33	1
pH	8.50		0.200	0.200	SU			09/10/15 19:19	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B102 (0-2)**

**Lab Sample ID: 500-100833-30**

**Date Collected: 09/03/15 14:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/10/15 13:28	1
Dibromofluoromethane	105		75 - 120	09/04/15 14:10	09/10/15 13:28	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 14:10	09/10/15 13:28	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/10/15 13:28	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B102 (0-2)**

**Lab Sample ID: 500-100833-30**

**Date Collected: 09/03/15 14:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B102 (0-2)**

**Lab Sample ID: 500-100833-30**

Date Collected: 09/03/15 14:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.0

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/09/15 07:17	09/11/15 18:33	1
2-Fluorophenol	76		25 - 110	09/09/15 07:17	09/11/15 18:33	1
Nitrobenzene-d5	89		25 - 115	09/09/15 07:17	09/11/15 18:33	1
Phenol-d5	71		31 - 110	09/09/15 07:17	09/11/15 18:33	1
Terphenyl-d14	94		36 - 134	09/09/15 07:17	09/11/15 18:33	1
2,4,6-Tribromophenol	92		35 - 137	09/09/15 07:17	09/11/15 18:33	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.28</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Arsenic</b>	<b>9.1</b>		0.58	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Barium</b>	<b>71</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Beryllium</b>	<b>0.76</b>		0.23	0.050	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Cadmium</b>	<b>0.23</b>		0.12	0.033	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Chromium</b>	<b>18</b>		0.58	0.099	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Copper</b>	<b>23</b>		0.58	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Lead</b>	<b>24</b>		0.29	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Magnesium</b>	<b>12000</b>		5.8	2.3	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Calcium</b>	<b>21000</b>		12	3.7	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Manganese</b>	<b>280</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Nickel</b>	<b>30</b>		0.58	0.16	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Selenium</b>	<b>0.49</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Vanadium</b>	<b>26</b>		0.29	0.084	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Zinc</b>	<b>72</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Potassium</b>	<b>2000</b>		29	4.7	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1
<b>Sodium</b>	<b>2100</b>		58	7.6	mg/Kg	☼	09/09/15 16:07	09/11/15 20:05	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 20:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 20:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 20:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B102 (0-2)**

**Lab Sample ID: 500-100833-30**

Date Collected: 09/03/15 14:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.0

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>410</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:14	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 20:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 20:14	1
<b>Magnesium</b>	<b>35</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:14	1
<b>Manganese</b>	<b>7.6</b>		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
<b>Potassium</b>	<b>3.8</b>		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 20:14	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 20:14	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 20:14	1
<b>Zinc</b>	<b>0.095</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 09:30	09/14/15 20:14	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.093</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Barium</b>	<b>0.69</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Beryllium</b>	<b>0.0064</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 03:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Calcium</b>	<b>40</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Cobalt</b>	<b>0.076</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Magnesium</b>	<b>32</b>	<b>F1</b>	2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Potassium</b>	<b>25</b>	<b>F1</b>	2.5	0.50	mg/L		09/11/15 10:00	09/12/15 03:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 03:34	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Vanadium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 03:34	1
<b>Zinc</b>	<b>2.1</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 03:34	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:49	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:45	1
<b>Thallium</b>	<b>0.0034</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:45	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B102 (0-2)**

**Lab Sample ID: 500-100833-30**

Date Collected: 09/03/15 14:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 11:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 15:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 14:15	09/10/15 16:33	1
pH	8.50		0.200	0.200	SU			09/10/15 19:24	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B103 (0-2)**

**Lab Sample ID: 500-100833-31**

**Date Collected: 09/03/15 14:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 14:10	09/10/15 13:54	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/10/15 13:54	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 14:10	09/10/15 13:54	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/10/15 13:54	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B103 (0-2)**

**Lab Sample ID: 500-100833-31**

**Date Collected: 09/03/15 14:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B103 (0-2)**

**Lab Sample ID: 500-100833-31**

**Date Collected: 09/03/15 14:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	09/09/15 07:17	09/11/15 19:01	1
2-Fluorophenol	76		25 - 110	09/09/15 07:17	09/11/15 19:01	1
Nitrobenzene-d5	88		25 - 115	09/09/15 07:17	09/11/15 19:01	1
Phenol-d5	68		31 - 110	09/09/15 07:17	09/11/15 19:01	1
Terphenyl-d14	90		36 - 134	09/09/15 07:17	09/11/15 19:01	1
2,4,6-Tribromophenol	85		35 - 137	09/09/15 07:17	09/11/15 19:01	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Arsenic</b>	<b>6.7</b>		0.58	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Barium</b>	<b>42</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Beryllium</b>	<b>0.73</b>		0.23	0.050	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Cadmium</b>	<b>0.18</b>		0.12	0.034	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Chromium</b>	<b>18</b>		0.58	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Iron</b>	<b>19000 B</b>		12	4.5	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Magnesium</b>	<b>35000</b>		5.8	2.3	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Calcium</b>	<b>73000</b>		120	37	mg/Kg	☼	09/09/15 16:07	09/11/15 20:14	10
<b>Manganese</b>	<b>620</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Nickel</b>	<b>35</b>		0.58	0.16	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Selenium</b>	<b>0.46 J</b>		0.58	0.29	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Thallium</b>	<b>0.48 J</b>		0.58	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Vanadium</b>	<b>21</b>		0.29	0.084	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Zinc</b>	<b>58 B</b>		1.2	0.37	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Potassium</b>	<b>2800</b>		29	4.7	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1
<b>Sodium</b>	<b>1900</b>		58	7.6	mg/Kg	☼	09/09/15 16:07	09/11/15 20:09	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010 J</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
<b>Barium</b>	<b>0.31 J</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 11:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 11:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 11:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B103 (0-2)**

**Lab Sample ID: 500-100833-31**

Date Collected: 09/03/15 14:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.0

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	B	25	5.0	mg/L		09/15/15 17:00	09/16/15 14:13	10
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
Cobalt	0.012	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
Copper	0.012	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 11:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 11:58	1
Magnesium	480	B	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:58	1
Manganese	2.8		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
Nickel	0.027		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
Potassium	1.5	J	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 11:58	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:58	1
Zinc	1.0	B F1	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 11:58	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.091		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Barium	0.69		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 04:01	1
Beryllium	0.0086		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 04:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 04:01	1
Calcium	41		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:01	1
Chromium	0.21		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Cobalt	0.058		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Copper	0.32		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Iron	230		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 04:01	1
Lead	0.098		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 04:01	1
Magnesium	56		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:01	1
Manganese	0.83		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Nickel	0.28		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Potassium	40		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 04:01	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Vanadium	0.20		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:01	1
Zinc	0.55		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 04:01	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:52	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:48	1
Thallium	0.0041		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:48	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B103 (0-2)**

**Lab Sample ID: 500-100833-31**

Date Collected: 09/03/15 14:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:13	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 15:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/10/15 14:15	09/10/15 16:34	1
pH	7.80		0.200	0.200	SU			09/10/15 19:28	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B104 (0-2)**

**Lab Sample ID: 500-100833-32**

**Date Collected: 09/03/15 14:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/10/15 14:19	1
Dibromofluoromethane	105		75 - 120	09/04/15 14:10	09/10/15 14:19	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 14:10	09/10/15 14:19	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/10/15 14:19	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B104 (0-2)**

**Lab Sample ID: 500-100833-32**

**Date Collected: 09/03/15 14:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.037	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B104 (0-2)**

**Lab Sample ID: 500-100833-32**

Date Collected: 09/03/15 14:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
<b>Pyrene</b>	<b>0.015</b>	<b>J</b>	0.037	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/09/15 07:17	09/11/15 19:29	1
2-Fluorophenol	69		25 - 110	09/09/15 07:17	09/11/15 19:29	1
Nitrobenzene-d5	84		25 - 115	09/09/15 07:17	09/11/15 19:29	1
Phenol-d5	76		31 - 110	09/09/15 07:17	09/11/15 19:29	1
Terphenyl-d14	94		36 - 134	09/09/15 07:17	09/11/15 19:29	1
2,4,6-Tribromophenol	81		35 - 137	09/09/15 07:17	09/11/15 19:29	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Arsenic</b>	<b>5.9</b>		0.55	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Barium</b>	<b>45</b>		0.55	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Beryllium</b>	<b>0.71</b>		0.22	0.048	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.032	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Chromium</b>	<b>17</b>		0.55	0.095	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Cobalt</b>	<b>14</b>		0.28	0.062	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Copper</b>	<b>18</b>		0.55	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Lead</b>	<b>13</b>		0.28	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Magnesium</b>	<b>40000</b>		5.5	2.2	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Calcium</b>	<b>100000</b>		110	36	mg/Kg	☼	09/09/15 16:07	09/11/15 20:23	10
<b>Manganese</b>	<b>460</b>		0.55	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Nickel</b>	<b>31</b>		0.55	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Vanadium</b>	<b>19</b>		0.28	0.081	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Zinc</b>	<b>49</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Potassium</b>	<b>2700</b>		28	4.5	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1
<b>Sodium</b>	<b>1900</b>		55	7.3	mg/Kg	☼	09/09/15 16:07	09/11/15 20:18	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 12:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 12:16	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 12:16	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B104 (0-2)**

**Lab Sample ID: 500-100833-32**

Date Collected: 09/03/15 14:15

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1300	B	25	5.0	mg/L		09/15/15 17:00	09/16/15 14:36	10
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
Cobalt	0.034		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
Copper	0.012	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 12:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 12:16	1
Magnesium	200	B	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 12:16	1
Manganese	3.3		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
Nickel	0.026		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
Potassium	1.2	J	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 12:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 12:16	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:16	1
Zinc	0.043	J B	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 12:16	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.038	J	0.050	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Barium	0.39	J	0.50	0.050	mg/L		09/11/15 10:00	09/12/15 04:08	1
Beryllium	0.0049		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 04:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 04:08	1
Calcium	70		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:08	1
Chromium	0.11		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Cobalt	0.034		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Copper	0.12		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Iron	100		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 04:08	1
Lead	0.057		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 04:08	1
Magnesium	44		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:08	1
Manganese	0.61		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Nickel	0.14		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Potassium	26		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 04:08	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Vanadium	0.12		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:08	1
Zinc	0.36		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 04:08	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:58	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:53	1
Thallium	0.0021		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:53	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B104 (0-2)**

**Lab Sample ID: 500-100833-32**

**Date Collected: 09/03/15 14:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:15	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 16:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:34	1
pH	8.28		0.200	0.200	SU			09/10/15 19:32	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

**Date Collected: 09/03/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 14:10	09/10/15 14:43	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/10/15 14:43	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/10/15 14:43	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/10/15 14:43	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

**Date Collected: 09/03/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

**Date Collected: 09/03/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119				09/09/15 07:17	09/11/15 19:56	1
2-Fluorophenol	72		25 - 110				09/09/15 07:17	09/11/15 19:56	1
Nitrobenzene-d5	82		25 - 115				09/09/15 07:17	09/11/15 19:56	1
Phenol-d5	79		31 - 110				09/09/15 07:17	09/11/15 19:56	1
Terphenyl-d14	117		36 - 134				09/09/15 07:17	09/11/15 19:56	1
2,4,6-Tribromophenol	72		35 - 137				09/09/15 07:17	09/11/15 19:56	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Arsenic</b>	<b>8.5</b>		0.57	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Barium</b>	<b>62</b>		0.57	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Beryllium</b>	<b>0.81</b>		0.23	0.049	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.033	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Chromium</b>	<b>19</b>		0.57	0.098	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Cobalt</b>	<b>15</b>		0.28	0.064	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Copper</b>	<b>23</b>		0.57	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Lead</b>	<b>17</b>		0.28	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Magnesium</b>	<b>26000</b>		5.7	2.3	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Calcium</b>	<b>67000</b>		110	37	mg/Kg	☼	09/09/15 16:07	09/11/15 20:32	10
<b>Manganese</b>	<b>440</b>		0.57	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Nickel</b>	<b>37</b>		0.57	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Selenium</b>	<b>0.51</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Vanadium</b>	<b>24</b>		0.28	0.083	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Potassium</b>	<b>3100</b>		28	4.7	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1
<b>Sodium</b>	<b>2200</b>		57	7.5	mg/Kg	☼	09/09/15 16:07	09/11/15 20:27	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 12:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 12:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

**Date Collected: 09/03/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>950</b>	<b>B</b>	25	5.0	mg/L		09/15/15 17:00	09/16/15 14:40	10
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Cobalt</b>	<b>0.041</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Iron</b>	<b>1.8</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Lead</b>	<b>0.0093</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Magnesium</b>	<b>310</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Manganese</b>	<b>13</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Nickel</b>	<b>0.029</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Potassium</b>	<b>1.5</b>	<b>J</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 12:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 12:21	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 12:21	1
<b>Zinc</b>	<b>2.8</b>	<b>B</b>	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 12:21	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.097</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Barium</b>	<b>0.88</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Beryllium</b>	<b>0.0086</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 04:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Calcium</b>	<b>44</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Cobalt</b>	<b>0.10</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Copper</b>	<b>0.27</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Magnesium</b>	<b>46</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Manganese</b>	<b>3.2</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Nickel</b>	<b>0.27</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Potassium</b>	<b>34</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 04:15	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Vanadium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:15	1
<b>Zinc</b>	<b>0.54</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 04:15	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:00	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:54	1
<b>Thallium</b>	<b>0.0047</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:54	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

Date Collected: 09/03/15 14:05

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 84.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:21	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 16:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/10/15 14:15	09/10/15 16:35	1
pH	8.26		0.200	0.200	SU			09/10/15 19:37	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

**Date Collected: 09/03/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,2-Dichloroethane	<0.0048		0.0048	0.00070	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/10/15 15:09	1
Dibromofluoromethane	105		75 - 120	09/04/15 14:10	09/10/15 15:09	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	09/04/15 14:10	09/10/15 15:09	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/10/15 15:09	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
<b>Benzo[a]anthracene</b>	<b>0.0077</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

**Date Collected: 09/03/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
<b>Chrysene</b>	<b>0.010</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
<b>Fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

**Date Collected: 09/03/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
<b>Phenanthrene</b>	<b>0.0062</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
<b>Pyrene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 07:17	09/15/15 06:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	83		25 - 119				09/09/15 07:17	09/15/15 06:44	1
2-Fluorophenol	86		25 - 110				09/09/15 07:17	09/15/15 06:44	1
Nitrobenzene-d5	78		25 - 115				09/09/15 07:17	09/15/15 06:44	1
Phenol-d5	87		31 - 110				09/09/15 07:17	09/15/15 06:44	1
Terphenyl-d14	163	X	36 - 134				09/09/15 07:17	09/15/15 06:44	1
2,4,6-Tribromophenol	65		35 - 137				09/09/15 07:17	09/15/15 06:44	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Arsenic</b>	<b>7.9</b>		0.58	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Barium</b>	<b>81</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Beryllium</b>	<b>1.0</b>		0.23	0.051	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Cadmium</b>	<b>0.24</b>		0.12	0.034	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Chromium</b>	<b>24</b>		0.58	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Cobalt</b>	<b>17</b>		0.29	0.066	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Copper</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Iron</b>	<b>23000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Lead</b>	<b>31</b>		0.29	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Magnesium</b>	<b>10000</b>		5.8	2.4	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Calcium</b>	<b>11000</b>		12	3.8	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Manganese</b>	<b>280</b>		0.58	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Nickel</b>	<b>42</b>		0.58	0.16	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Selenium</b>	<b>0.51</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Vanadium</b>	<b>30</b>		0.29	0.085	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Zinc</b>	<b>74</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Potassium</b>	<b>3300</b>		29	4.8	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1
<b>Sodium</b>	<b>2800</b>		58	7.7	mg/Kg	☼	09/09/15 16:07	09/11/15 20:36	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 13:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Cadmium</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 13:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

Date Collected: 09/03/15 13:55

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>900</b>	<b>B</b>	25	5.0	mg/L		09/15/15 17:00	09/16/15 14:44	10
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Cobalt</b>	<b>0.059</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Iron</b>	<b>4.8</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Lead</b>	<b>0.038</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Magnesium</b>	<b>290</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Manganese</b>	<b>15</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Nickel</b>	<b>0.043</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Potassium</b>	<b>1.9</b>	<b>J</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 13:11	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:11	1
<b>Zinc</b>	<b>0.050</b>	<b>J B</b>	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 13:11	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.082</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Barium</b>	<b>0.80</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Beryllium</b>	<b>0.0079</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 04:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Calcium</b>	<b>49</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Chromium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Cobalt</b>	<b>0.088</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Lead</b>	<b>0.22</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Magnesium</b>	<b>44</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Manganese</b>	<b>3.4</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Potassium</b>	<b>34</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 04:21	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:21	1
<b>Zinc</b>	<b>0.53</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 04:21	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:02	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:55	1
<b>Thallium</b>	<b>0.0039</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:55	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

**Date Collected: 09/03/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:23	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 16:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:35	1
pH	8.41		0.200	0.200	SU			09/10/15 19:41	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

**Date Collected: 09/03/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Methylene Chloride	<0.0052		0.0052	0.0040	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/10/15 15:34	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/10/15 15:34	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 14:10	09/10/15 15:34	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/10/15 15:34	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

**Date Collected: 09/03/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
<b>Fluoranthene</b>	<b>0.016 J</b>		0.042	0.0078	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

Date Collected: 09/03/15 13:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 78.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
<b>Phenanthrene</b>	<b>0.0090</b>	<b>J</b>	0.042	0.0059	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
<b>Pyrene</b>	<b>0.020</b>	<b>J</b>	0.042	0.0084	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 20:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	83		25 - 119				09/09/15 07:17	09/11/15 20:24	1
2-Fluorophenol	76		25 - 110				09/09/15 07:17	09/11/15 20:24	1
Nitrobenzene-d5	90		25 - 115				09/09/15 07:17	09/11/15 20:24	1
Phenol-d5	71		31 - 110				09/09/15 07:17	09/11/15 20:24	1
Terphenyl-d14	123		36 - 134				09/09/15 07:17	09/11/15 20:24	1
2,4,6-Tribromophenol	87		35 - 137				09/09/15 07:17	09/11/15 20:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.33</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Arsenic</b>	<b>5.9</b>		0.61	0.28	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Barium</b>	<b>95</b>		0.61	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Beryllium</b>	<b>0.78</b>		0.24	0.053	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Cadmium</b>	<b>0.41</b>		0.12	0.035	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Chromium</b>	<b>18</b>		0.61	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Cobalt</b>	<b>11</b>		0.30	0.069	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Copper</b>	<b>20</b>		0.61	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	12	4.7	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Lead</b>	<b>24</b>		0.30	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Magnesium</b>	<b>21000</b>		6.1	2.5	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Calcium</b>	<b>35000</b>		12	3.9	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Manganese</b>	<b>590</b>		0.61	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Nickel</b>	<b>28</b>		0.61	0.16	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Selenium</b>	<b>0.86</b>		0.61	0.30	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Vanadium</b>	<b>24</b>		0.30	0.089	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Zinc</b>	<b>68</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/09/15 16:07	09/14/15 13:47	1
<b>Potassium</b>	<b>2300</b>		30	5.0	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1
<b>Sodium</b>	<b>3000</b>		61	8.0	mg/Kg	☼	09/09/15 16:07	09/11/15 20:52	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
<b>Barium</b>	<b>0.62</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 13:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 13:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 13:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

Date Collected: 09/03/15 13:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 78.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230	B	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:23	1
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
Cobalt	0.023	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
Copper	0.016	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 13:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 13:23	1
Magnesium	88	B	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:23	1
Manganese	9.8	B	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
Nickel	0.011	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
Potassium	2.6	B	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:23	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 13:23	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:23	1
Zinc	0.61	B	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 13:23	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.045	J	0.050	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Barium	0.59		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 04:28	1
Beryllium	0.0049		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 04:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 04:28	1
Calcium	21		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:28	1
Chromium	0.12		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Cobalt	0.048		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Copper	0.13		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Iron	120		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 04:28	1
Lead	0.095		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 04:28	1
Magnesium	23		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:28	1
Manganese	1.9		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Nickel	0.12		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Potassium	22		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 04:28	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Vanadium	0.16		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:28	1
Zinc	0.32		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 04:28	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:03	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:56	1
Thallium	0.0023		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:56	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:54	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

**Date Collected: 09/03/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:28	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0067	mg/Kg	☼	09/10/15 15:00	09/11/15 16:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.64		0.64	0.21	mg/Kg	☼	09/10/15 14:15	09/10/15 16:35	1
pH	7.70		0.200	0.200	SU			09/10/15 19:46	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

**Date Collected: 09/03/15 13:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 96.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,3-Dichloropropane, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Toluene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/10/15 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/10/15 15:59	1
Dibromofluoromethane	98		75 - 120	09/04/15 14:10	09/10/15 15:59	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/10/15 15:59	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 14:10	09/10/15 15:59	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Anthracene	<0.034		0.034	0.0056	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Benzo[a]anthracene	<0.034		0.034	0.0045	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

**Date Collected: 09/03/15 13:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 96.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.034		0.034	0.0065	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Benzo[b]fluoranthene	<0.034		0.034	0.0073	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Carbazole	<0.17		0.17	0.084	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
4-Chloro-3-methylphenol	<0.34		0.34	0.11	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Chrysene	<0.034		0.034	0.0092	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0065	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,4-Dichlorophenol	<0.34		0.34	0.080	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,4-Dinitrophenol	<0.68		0.68	0.59	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Fluorene	<0.034		0.034	0.0047	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0088	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2-Methylnaphthalene	<0.034		0.034	0.0062	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
3-Nitroaniline	<0.34		0.34	0.10	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Nitrobenzene	<0.034		0.034	0.0084	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

**Date Collected: 09/03/15 13:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 96.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Phenanthrene	<0.034		0.034	0.0047	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Phenol	<0.17		0.17	0.075	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
Pyrene	<0.034		0.034	0.0067	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,4,5-Trichlorophenol	<0.34		0.34	0.077	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	09/09/15 07:17	09/11/15 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		25 - 119	09/09/15 07:17	09/11/15 20:51	1
2-Fluorophenol	77		25 - 110	09/09/15 07:17	09/11/15 20:51	1
Nitrobenzene-d5	129	X	25 - 115	09/09/15 07:17	09/11/15 20:51	1
Phenol-d5	70		31 - 110	09/09/15 07:17	09/11/15 20:51	1
Terphenyl-d14	98		36 - 134	09/09/15 07:17	09/11/15 20:51	1
2,4,6-Tribromophenol	101		35 - 137	09/09/15 07:17	09/11/15 20:51	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Arsenic</b>	<b>0.86</b>		0.48	0.22	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Barium</b>	<b>1.6</b>		0.48	0.089	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Beryllium</b>	<b>0.042</b>	J	0.19	0.042	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
Cadmium	<0.097		0.097	0.028	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Chromium</b>	<b>0.85</b>		0.48	0.083	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Cobalt</b>	<b>0.52</b>		0.24	0.055	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Copper</b>	<b>2.3</b>		0.48	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Iron</b>	<b>1600</b>	B	9.7	3.7	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Lead</b>	<b>0.73</b>		0.24	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Magnesium</b>	<b>13000</b>		4.8	2.0	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Calcium</b>	<b>25000</b>		9.7	3.1	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Manganese</b>	<b>52</b>		0.48	0.096	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Nickel</b>	<b>1.1</b>		0.48	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Vanadium</b>	<b>2.5</b>		0.24	0.071	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Zinc</b>	<b>15</b>	B	0.97	0.31	mg/Kg	☼	09/09/15 16:07	09/14/15 13:51	1
<b>Potassium</b>	<b>90</b>		24	4.0	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1
<b>Sodium</b>	<b>52</b>		48	6.4	mg/Kg	☼	09/09/15 16:07	09/11/15 21:01	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
<b>Barium</b>	<b>0.15</b>	J	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 13:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 13:28	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

Date Collected: 09/03/15 13:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 96.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>510</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 13:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 13:28	1
<b>Magnesium</b>	<b>50</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:28	1
<b>Manganese</b>	<b>0.90</b>	<b>B</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
<b>Potassium</b>	<b>2.1</b>	<b>J B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 13:28	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:28	1
<b>Zinc</b>	<b>0.12</b>	<b>B</b>	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 13:28	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
Barium	<0.50		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 04:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 04:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 04:51	1
<b>Calcium</b>	<b>9.0</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:51	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
Copper	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
Iron	<0.20		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 04:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 04:51	1
<b>Magnesium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:51	1
Manganese	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
Potassium	<2.5		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 04:51	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
Vanadium	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:51	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 04:51	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:10	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:57	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

**Date Collected: 09/03/15 13:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 96.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0060	mg/Kg	☼	09/10/15 15:00	09/11/15 16:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.16	mg/Kg	☼	09/10/15 14:15	09/10/15 16:35	1
pH	<b>8.88</b>		0.200	0.200	SU			09/10/15 19:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

**Date Collected: 09/03/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Bromoform	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,1-Dichloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Ethylbenzene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Tetrachloroethene	<0.0046		0.0046	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	09/04/15 14:10	09/10/15 16:24	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/10/15 16:24	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 14:10	09/10/15 16:24	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 14:10	09/10/15 16:24	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.041	J	0.18	0.033	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Acenaphthylene	<0.18		0.18	0.024	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Anthracene	0.15	J	0.18	0.030	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Benzo[a]anthracene	0.22		0.18	0.024	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5

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TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

**Date Collected: 09/03/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.20</b>		0.18	0.035	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Benzo[b]fluoranthene</b>	<b>0.27</b>		0.18	0.039	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Benzo[g,h,i]perylene	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Benzo[k]fluoranthene</b>	<b>0.12</b>	<b>J</b>	0.18	0.053	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Bis(2-chloroethoxy)methane	<0.91		0.91	0.18	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Bis(2-chloroethyl)ether	<0.91		0.91	0.27	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Bis(2-ethylhexyl) phthalate	<0.91		0.91	0.33	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
4-Bromophenyl phenyl ether	<0.91		0.91	0.24	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Butyl benzyl phthalate	<0.91		0.91	0.34	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Carbazole	<0.91		0.91	0.45	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
4-Chloroaniline	<3.6		3.6	0.85	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
4-Chloro-3-methylphenol	<1.8		1.8	0.62	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2-Chloronaphthalene	<0.91		0.91	0.20	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2-Chlorophenol	<0.91		0.91	0.31	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
4-Chlorophenyl phenyl ether	<0.91		0.91	0.21	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Chrysene</b>	<b>0.25</b>		0.18	0.049	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Dibenz(a,h)anthracene	<0.18		0.18	0.035	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Dibenzofuran	<0.91		0.91	0.21	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
1,2-Dichlorobenzene	<0.91		0.91	0.22	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
1,3-Dichlorobenzene	<0.91		0.91	0.20	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
1,4-Dichlorobenzene	<0.91		0.91	0.23	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
3,3'-Dichlorobenzidine	<0.91		0.91	0.25	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,4-Dichlorophenol	<1.8		1.8	0.43	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Diethyl phthalate	<0.91		0.91	0.31	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,4-Dimethylphenol	<1.8		1.8	0.69	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Dimethyl phthalate	<0.91		0.91	0.24	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Di-n-butyl phthalate	<0.91		0.91	0.28	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
4,6-Dinitro-2-methylphenol	<3.6		3.6	1.5	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,4-Dinitrophenol	<3.6		3.6	3.2	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,4-Dinitrotoluene	<0.91		0.91	0.29	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,6-Dinitrotoluene	<0.91		0.91	0.36	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Di-n-octyl phthalate	<0.91		0.91	0.30	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Fluoranthene</b>	<b>0.39</b>		0.18	0.034	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Fluorene</b>	<b>0.077</b>	<b>J</b>	0.18	0.025	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Hexachlorobenzene	<0.36		0.36	0.042	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Hexachlorobutadiene	<0.91		0.91	0.28	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Hexachlorocyclopentadiene	<3.6		3.6	1.0	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Hexachloroethane	<0.91		0.91	0.28	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.11</b>	<b>J</b>	0.18	0.047	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Isophorone	<0.91		0.91	0.20	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2-Methylnaphthalene	<0.18		0.18	0.033	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2-Methylphenol	<0.91		0.91	0.29	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
3 & 4 Methylphenol	<0.91		0.91	0.30	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Naphthalene	<0.18		0.18	0.028	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2-Nitroaniline	<0.91		0.91	0.24	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
3-Nitroaniline	<1.8		1.8	0.56	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
4-Nitroaniline	<1.8		1.8	0.76	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Nitrobenzene	<0.18		0.18	0.045	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2-Nitrophenol	<1.8		1.8	0.43	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5

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**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

Date Collected: 09/03/15 13:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 89.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<3.6		3.6	1.7	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
N-Nitrosodi-n-propylamine	<0.91		0.91	0.22	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
N-Nitrosodiphenylamine	<0.91		0.91	0.21	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,2'-oxybis[1-chloropropane]	<0.91		0.91	0.21	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Pentachlorophenol	<3.6		3.6	2.9	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Phenanthrene</b>	<b>0.42</b>		0.18	0.025	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
Phenol	<0.91		0.91	0.40	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
<b>Pyrene</b>	<b>0.93</b>		0.18	0.036	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
1,2,4-Trichlorobenzene	<0.91		0.91	0.20	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,4,5-Trichlorophenol	<1.8		1.8	0.41	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5
2,4,6-Trichlorophenol	<1.8		1.8	0.62	mg/Kg	☼	09/09/15 07:17	09/15/15 07:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		25 - 119	09/09/15 07:17	09/15/15 07:10	5
2-Fluorophenol	93		25 - 110	09/09/15 07:17	09/15/15 07:10	5
Nitrobenzene-d5	87		25 - 115	09/09/15 07:17	09/15/15 07:10	5
Phenol-d5	91		31 - 110	09/09/15 07:17	09/15/15 07:10	5
Terphenyl-d14	255	X	36 - 134	09/09/15 07:17	09/15/15 07:10	5
2,4,6-Tribromophenol	78		35 - 137	09/09/15 07:17	09/15/15 07:10	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.31</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Arsenic</b>	<b>5.5</b>		0.53	0.25	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Barium</b>	<b>42</b>		0.53	0.097	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Beryllium</b>	<b>0.63</b>		0.21	0.046	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Cadmium</b>	<b>0.24</b>		0.11	0.031	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Chromium</b>	<b>14</b>		0.53	0.091	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Cobalt</b>	<b>10</b>		0.27	0.060	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Copper</b>	<b>18</b>		0.53	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Iron</b>	<b>15000</b>	<b>B</b>	11	4.1	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Lead</b>	<b>46</b>		0.27	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Magnesium</b>	<b>44000</b>		5.3	2.2	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Calcium</b>	<b>110000</b>		110	34	mg/Kg	☼	09/09/15 16:07	09/11/15 21:14	10
<b>Manganese</b>	<b>440</b>		0.53	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Nickel</b>	<b>25</b>		0.53	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Selenium</b>	<b>0.64</b>		0.53	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Vanadium</b>	<b>18</b>		0.27	0.078	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Zinc</b>	<b>55</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	09/09/15 16:07	09/14/15 13:56	1
<b>Potassium</b>	<b>2500</b>		27	4.3	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1
<b>Sodium</b>	<b>2200</b>		53	7.0	mg/Kg	☼	09/09/15 16:07	09/11/15 21:09	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 13:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Cadmium</b>	<b>0.0038</b>	<b>J</b>	0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 13:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

Date Collected: 09/03/15 13:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 89.4

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1000</b>	<b>B</b>	25	5.0	mg/L		09/15/15 17:00	09/16/15 14:48	10
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Cobalt</b>	<b>0.070</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Magnesium</b>	<b>340</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Manganese</b>	<b>6.6</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Nickel</b>	<b>0.055</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Potassium</b>	<b>2.0</b>	<b>J</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 13:33	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:33	1
<b>Zinc</b>	<b>0.98</b>	<b>B</b>	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 13:33	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.063</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Barium</b>	<b>0.64</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Beryllium</b>	<b>0.0066</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 04:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Calcium</b>	<b>92</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Cobalt</b>	<b>0.064</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Iron</b>	<b>150</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Lead</b>	<b>0.28</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Magnesium</b>	<b>59</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Potassium</b>	<b>32</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 04:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 04:58	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Vanadium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 04:58	1
<b>Zinc</b>	<b>0.45</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 04:58	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:12	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:58	1
<b>Thallium</b>	<b>0.0026</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:58	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

**Date Collected: 09/03/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.020</b>		0.018	0.0061	mg/Kg	☼	09/10/15 15:00	09/11/15 16:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 14:15	09/10/15 16:36	1
pH	<b>8.40</b>		0.200	0.200	SU			09/10/15 19:54	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/10/15 16:49	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/10/15 16:49	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	09/04/15 14:10	09/10/15 16:49	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/10/15 16:49	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
<b>Fluoranthene</b>	<b>0.0086</b>	<b>J</b>	0.036	0.0067	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

Date Collected: 09/03/15 13:05

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.7

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
<b>Phenanthrene</b>	<b>0.0095</b>	<b>J</b>	0.036	0.0050	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
Pyrene	<0.036		0.036	0.0071	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:29	09/11/15 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/10/15 07:29	09/11/15 03:15	1
2-Fluorophenol	95		25 - 110	09/10/15 07:29	09/11/15 03:15	1
Nitrobenzene-d5	82		25 - 115	09/10/15 07:29	09/11/15 03:15	1
Phenol-d5	89		31 - 110	09/10/15 07:29	09/11/15 03:15	1
Terphenyl-d14	82		36 - 134	09/10/15 07:29	09/11/15 03:15	1
2,4,6-Tribromophenol	77		35 - 137	09/10/15 07:29	09/11/15 03:15	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Arsenic</b>	<b>5.5</b>		0.55	0.25	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Barium</b>	<b>36</b>		0.55	0.10	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Beryllium</b>	<b>0.58</b>		0.22	0.048	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.032	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Chromium</b>	<b>15</b>		0.55	0.095	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Cobalt</b>	<b>11</b>		0.28	0.062	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Copper</b>	<b>18</b>		0.55	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Lead</b>	<b>17</b>		0.28	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Magnesium</b>	<b>44000</b>		5.5	2.2	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Calcium</b>	<b>110000</b>		110	36	mg/Kg	☼	09/09/15 16:07	09/11/15 21:23	10
<b>Manganese</b>	<b>400</b>		0.55	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Nickel</b>	<b>29</b>		0.55	0.15	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Vanadium</b>	<b>17</b>		0.28	0.081	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Zinc</b>	<b>50</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/09/15 16:07	09/14/15 14:01	1
<b>Potassium</b>	<b>2700</b>		28	4.5	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1
<b>Sodium</b>	<b>1300</b>		55	7.3	mg/Kg	☼	09/09/15 16:07	09/11/15 21:18	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 13:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 13:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1200</b>	<b>B</b>	25	5.0	mg/L		09/15/15 17:00	09/16/15 14:52	10
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Cobalt</b>	<b>0.046</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Iron</b>	<b>1.6</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 13:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Magnesium</b>	<b>260</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Manganese</b>	<b>6.4</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 13:38	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:38	1
<b>Zinc</b>	<b>0.050</b>	<b>J B</b>	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 13:38	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Barium</b>	<b>0.088</b>	<b>J</b>	0.50	0.050	mg/L		09/11/15 10:00	09/12/15 05:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 05:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Calcium</b>	<b>28</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Iron</b>	<b>5.6</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Lead</b>	<b>0.0097</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Magnesium</b>	<b>8.3</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Potassium</b>	<b>4.4</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 05:04	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:04	1
<b>Zinc</b>	<b>0.13</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 05:04	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:13	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:59	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 13:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

Date Collected: 09/03/15 13:05

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0065	mg/Kg	☼	09/10/15 15:00	09/11/15 16:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/10/15 14:15	09/10/15 16:37	1
pH	7.93		0.200	0.200	SU			09/10/15 19:59	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

**Date Collected: 09/03/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,1-Dichloroethene	<0.0045		0.0045	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	09/04/15 14:10	09/10/15 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	09/04/15 14:10	09/10/15 17:14	1
Dibromofluoromethane	106		75 - 120	09/04/15 14:10	09/10/15 17:14	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 14:10	09/10/15 17:14	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/10/15 17:14	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Acenaphthylene	<0.037		0.037	0.0048	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Anthracene	<0.037		0.037	0.0061	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
<b>Benzo[a]anthracene</b>	<b>0.0081</b>	<b>J</b>	0.037	0.0049	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

**Date Collected: 09/03/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Benzo[b]fluoranthene	<0.037		0.037	0.0079	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.038	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
<b>Fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.037	0.0068	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

Date Collected: 09/03/15 13:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
<b>Phenanthrene</b>	<b>0.017</b>	<b>J</b>	0.037	0.0051	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
Phenol	<0.18		0.18	0.082	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/11/15 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	09/10/15 07:29	09/11/15 03:41	1
2-Fluorophenol	90		25 - 110	09/10/15 07:29	09/11/15 03:41	1
Nitrobenzene-d5	80		25 - 115	09/10/15 07:29	09/11/15 03:41	1
Phenol-d5	83		31 - 110	09/10/15 07:29	09/11/15 03:41	1
Terphenyl-d14	78		36 - 134	09/10/15 07:29	09/11/15 03:41	1
2,4,6-Tribromophenol	76		35 - 137	09/10/15 07:29	09/11/15 03:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Arsenic</b>	<b>5.0</b>		0.53	0.25	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Barium</b>	<b>39</b>		0.53	0.097	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Beryllium</b>	<b>0.62</b>		0.21	0.046	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.031	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Chromium</b>	<b>16</b>		0.53	0.091	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Cobalt</b>	<b>10</b>		0.27	0.060	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Copper</b>	<b>18</b>		0.53	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	11	4.1	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Lead</b>	<b>16</b>		0.27	0.13	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Magnesium</b>	<b>40000</b>		5.3	2.2	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Calcium</b>	<b>98000</b>		110	34	mg/Kg	☼	09/09/15 16:07	09/11/15 21:39	10
<b>Manganese</b>	<b>450</b>		0.53	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Nickel</b>	<b>29</b>		0.53	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Vanadium</b>	<b>18</b>		0.27	0.078	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Zinc</b>	<b>49</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	09/09/15 16:07	09/14/15 14:06	1
<b>Potassium</b>	<b>2900</b>		27	4.3	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1
<b>Sodium</b>	<b>1400</b>		53	7.0	mg/Kg	☼	09/09/15 16:07	09/11/15 21:27	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 13:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 13:43	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 13:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

**Date Collected: 09/03/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1100	B	25	5.0	mg/L		09/15/15 17:00	09/16/15 14:56	10
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
Cobalt	0.043		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
Copper	0.010	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
Iron	3.6		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 13:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 13:43	1
Magnesium	310	B	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:43	1
Manganese	7.0		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
Nickel	0.035		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
Potassium	3.1		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:43	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 13:43	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:43	1
Zinc	0.13	B	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 13:43	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Barium	0.20	J	0.50	0.050	mg/L		09/11/15 10:00	09/12/15 05:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 05:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 05:11	1
Calcium	61		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:11	1
Chromium	0.014	J	0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Cobalt	0.010	J	0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Copper	0.027		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Iron	12		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 05:11	1
Lead	0.038		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 05:11	1
Magnesium	18		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:11	1
Manganese	0.73		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Nickel	0.016	J	0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Potassium	7.0		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 05:11	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Vanadium	0.021	J	0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:11	1
Zinc	0.072	J	0.10	0.020	mg/L		09/11/15 10:00	09/12/15 05:11	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:15	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 14:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 14:00	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 13:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

Date Collected: 09/03/15 13:10

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 85.9

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:36	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.017	0.0059	mg/Kg	☼	09/10/15 15:00	09/11/15 16:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:38	1
pH	8.03		0.200	0.200	SU			09/10/15 20:03	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/10/15 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/10/15 17:39	1
Dibromofluoromethane	101		75 - 120	09/04/15 14:10	09/10/15 17:39	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/10/15 17:39	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 14:10	09/10/15 17:39	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.0**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/10/15 07:29	09/11/15 02:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119				09/10/15 07:29	09/11/15 02:48	1
2-Fluorophenol	84		25 - 110				09/10/15 07:29	09/11/15 02:48	1
Nitrobenzene-d5	84		25 - 115				09/10/15 07:29	09/11/15 02:48	1
Phenol-d5	78		31 - 110				09/10/15 07:29	09/11/15 02:48	1
Terphenyl-d14	81		36 - 134				09/10/15 07:29	09/11/15 02:48	1
2,4,6-Tribromophenol	66		35 - 137				09/10/15 07:29	09/11/15 02:48	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.2	0.26	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Arsenic</b>	<b>15</b>		0.62	0.29	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Barium</b>	<b>100</b>		0.62	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Beryllium</b>	<b>0.83</b>		0.25	0.054	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Cadmium</b>	<b>0.25</b>		0.12	0.036	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Chromium</b>	<b>20</b>		0.62	0.11	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Cobalt</b>	<b>14</b>		0.31	0.071	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Copper</b>	<b>26</b>		0.62	0.14	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Iron</b>	<b>29000</b>	<b>B</b>	12	4.8	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Lead</b>	<b>21</b>		0.31	0.16	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Magnesium</b>	<b>6100</b>		6.2	2.5	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Calcium</b>	<b>5500</b>		12	4.0	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Manganese</b>	<b>720</b>		0.62	0.12	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Nickel</b>	<b>36</b>		0.62	0.17	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.62	0.31	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Thallium</b>	<b>0.31</b>	<b>J</b>	0.62	0.31	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Vanadium</b>	<b>36</b>		0.31	0.091	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	1.2	0.40	mg/Kg	☼	09/09/15 16:07	09/14/15 14:11	1
<b>Potassium</b>	<b>1500</b>		31	5.1	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1
<b>Sodium</b>	<b>2100</b>		62	8.2	mg/Kg	☼	09/09/15 16:07	09/11/15 21:43	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 13:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 13:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 13:48	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

Date Collected: 09/03/15 13:00

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 79.0

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>130</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:48	1
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
<b>Iron</b>	<b>1.2</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 13:48	1
<b>Lead</b>	<b>0.0084</b>		0.0075	0.0075	mg/L		09/17/15 09:00	09/17/15 13:41	1
<b>Magnesium</b>	<b>58</b>	<b>B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:48	1
<b>Manganese</b>	<b>13</b>	<b>B</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
<b>Nickel</b>	<b>0.031</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
<b>Potassium</b>	<b>1.3</b>	<b>J B</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 13:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 13:48	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 13:48	1
Zinc	<0.10		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 13:48	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.056</b>		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Beryllium</b>	<b>0.0051</b>		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 05:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Calcium</b>	<b>15</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Cobalt</b>	<b>0.044</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Iron</b>	<b>140</b>		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Lead</b>	<b>0.065</b>		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Magnesium</b>	<b>24</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Potassium</b>	<b>16</b>		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 05:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 05:18	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 05:18	1
<b>Zinc</b>	<b>0.32</b>		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 05:18	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:16	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 14:01	1
<b>Thallium</b>	<b>0.0023</b>		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 14:01	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 13:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.021	0.0074	mg/Kg	☼	09/10/15 15:00	09/11/15 16:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	09/10/15 14:15	09/10/15 16:38	1
pH	7.70		0.200	0.200	SU			09/10/15 20:08	1

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
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- 11
- 12
- 13

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## GC/MS VOA

### Prep Batch: 303249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	5035	
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	5035	
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	5035	
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	5035	
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	5035	
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	5035	
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	5035	
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	5035	
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	5035	
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	5035	
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	5035	
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	5035	
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	5035	
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	5035	
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	5035	
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	5035	
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	5035	
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	5035	
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	5035	
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	5035	

### Prep Batch: 303250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	5035	
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	5035	
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	5035	
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	5035	
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	5035	
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	5035	
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	5035	
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	5035	
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	5035	
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	5035	
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	5035	
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	5035	
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	5035	
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	5035	
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	5035	
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	5035	
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	5035	
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	5035	
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	5035	
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	5035	

### Analysis Batch: 303390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	8260B	303249
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	8260B	303249
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	8260B	303249
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	8260B	303249
LCS 500-303390/4	Lab Control Sample	Total/NA	Solid	8260B	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## GC/MS VOA (Continued)

### Analysis Batch: 303390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-303390/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-303390/6	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 303466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	8260B	303249
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	8260B	303249
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	8260B	303249
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	8260B	303249
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	8260B	303249
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	8260B	303249
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	8260B	303249
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	8260B	303249
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	8260B	303249
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	8260B	303249
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	8260B	303249
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	8260B	303249
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	8260B	303249
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	8260B	303249
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	8260B	303249
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	8260B	303249
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	8260B	303250
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	8260B	303250
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	8260B	303250
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	8260B	303250
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	8260B	303250
LCS 500-303466/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-303466/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-303466/6	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 303640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	8260B	303250
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	8260B	303250
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	8260B	303250
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	8260B	303250
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	8260B	303250
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	8260B	303250
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	8260B	303250
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	8260B	303250
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	8260B	303250
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	8260B	303250
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	8260B	303250
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	8260B	303250
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	8260B	303250
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	8260B	303250
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	8260B	303250
LCS 500-303640/31	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-303640/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-303640/7	Method Blank	Total/NA	Solid	8260B	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## GC/MS Semi VOA

### Prep Batch: 303467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	3541	
500-100833-21 MS	2618-7-B94 (0-2)	Total/NA	Solid	3541	
500-100833-21 MSD	2618-7-B94 (0-2)	Total/NA	Solid	3541	
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	3541	
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	3541	
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	3541	
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	3541	
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	3541	
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	3541	
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	3541	
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	3541	
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	3541	
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	3541	
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	3541	
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	3541	
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	3541	
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	3541	
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	3541	
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	3541	
LCS 500-303467/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303467/1-A	Method Blank	Total/NA	Solid	3541	

### Prep Batch: 303468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	3541	
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	3541	
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	3541	
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	3541	
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	3541	
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	3541	
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	3541	
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	3541	
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	3541	
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	3541	
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	3541	
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	3541	
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	3541	
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	3541	
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	3541	
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	3541	
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	3541	
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	3541	
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	3541	
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	3541	
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	3541	
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	3541	
LCS 500-303468/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303468/1-A	Method Blank	Total/NA	Solid	3541	

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 303573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303467/2-A	Lab Control Sample	Total/NA	Solid	8270D	303467
MB 500-303467/1-A	Method Blank	Total/NA	Solid	8270D	303467

### Prep Batch: 303651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	3541	
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	3541	
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	3541	
LCS 500-303651/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303651/1-A	Method Blank	Total/NA	Solid	3541	

### Analysis Batch: 303768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	8270D	303468
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	8270D	303468
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	8270D	303468
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	8270D	303468
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	8270D	303468
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	8270D	303468
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	8270D	303468
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	8270D	303468
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	8270D	303468
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	8270D	303468
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	8270D	303651
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	8270D	303651
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	8270D	303651
LCS 500-303468/2-A	Lab Control Sample	Total/NA	Solid	8270D	303468
LCS 500-303651/2-A	Lab Control Sample	Total/NA	Solid	8270D	303651
MB 500-303468/1-A	Method Blank	Total/NA	Solid	8270D	303468
MB 500-303651/1-A	Method Blank	Total/NA	Solid	8270D	303651

### Analysis Batch: 303888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	8270D	303467
500-100833-21 MS	2618-7-B94 (0-2)	Total/NA	Solid	8270D	303467
500-100833-21 MSD	2618-7-B94 (0-2)	Total/NA	Solid	8270D	303467
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	8270D	303467
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	8270D	303467
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	8270D	303467
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	8270D	303467
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	8270D	303467
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	8270D	303467
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	8270D	303467
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	8270D	303467
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	8270D	303467
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	8270D	303467
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	8270D	303467
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	8270D	303467
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	8270D	303467

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 303966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	8270D	303468
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	8270D	303468
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	8270D	303468
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	8270D	303468
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	8270D	303468
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	8270D	303468
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	8270D	303468
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	8270D	303468
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	8270D	303468
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	8270D	303468
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	8270D	303468
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	8270D	303467

### Analysis Batch: 304240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	8270D	303468
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	8270D	303467
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	8270D	303467

## Metals

### Prep Batch: 303362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	3050B	
500-100833-1 DU	2618-7-B45 (0-6)	Total/NA	Solid	3050B	
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	3050B	
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	3050B	
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	3050B	
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	3050B	
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	3050B	
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	3050B	
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	3050B	
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	3050B	
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	3050B	
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	3050B	
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	3050B	
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	3050B	
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	3050B	
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	3050B	
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	3050B	
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	3050B	
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	3050B	
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	3050B	
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	3050B	
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	3050B	
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	3050B	
LCS 500-303362/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-303362/1-A	Method Blank	Total/NA	Solid	3050B	

TestAmerica Chicago



# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Analysis Batch: 303498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 DU	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	6010B	303362
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	6010B	303362
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	6010B	303362
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	6010B	303362
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	6010B	303362
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	6010B	303362
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	6010B	303362
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	6010B	303362
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	6010B	303362
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	6010B	303362
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	6010B	303362
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	6010B	303362
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	6010B	303362
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	6010B	303362
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	6010B	303362
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	6010B	303362
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	6010B	303362
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	6010B	303362
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	6010B	303362
LCS 500-303362/2-A	Lab Control Sample	Total/NA	Solid	6010B	303362
MB 500-303362/1-A	Method Blank	Total/NA	Solid	6010B	303362

### Prep Batch: 303585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	3050B	
500-100833-21 DU	2618-7-B94 (0-2)	Total/NA	Solid	3050B	
500-100833-21 MS	2618-7-B94 (0-2)	Total/NA	Solid	3050B	
500-100833-21 MSD	2618-7-B94 (0-2)	Total/NA	Solid	3050B	
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	3050B	
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	3050B	
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	3050B	
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	3050B	
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	3050B	
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	3050B	
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	3050B	
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	3050B	
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	3050B	
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	3050B	
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	3050B	
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	3050B	
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	3050B	
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	3050B	
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	3050B	
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	3050B	
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	3050B	
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	3050B	
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	3050B	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Prep Batch: 303585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303585/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-303585/1-A	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 303664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 DU	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 DU	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	6010B	303362
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	6010B	303362
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	6010B	303362
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	6010B	303362
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	6010B	303362
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	6010B	303362
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	6010B	303362
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	6010B	303362
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	6010B	303362
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	6010B	303362
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	6010B	303362
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	6010B	303362
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	6010B	303362
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	6010B	303362
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	6010B	303362
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	6010B	303362
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	6010B	303362
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	6010B	303362
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	6010B	303362
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	6010B	303362
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	6010B	303362
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	6010B	303362
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	6010B	303362
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	6010B	303362
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	6010B	303362
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	6010B	303362
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	6010B	303362
LCS 500-303362/2-A	Lab Control Sample	Total/NA	Solid	6010B	303362
MB 500-303362/1-A	Method Blank	Total/NA	Solid	6010B	303362

### Prep Batch: 303690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	7471B	
500-100833-1 DU	2618-7-B45 (0-6)	Total/NA	Solid	7471B	
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	7471B	
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	7471B	
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	7471B	
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	7471B	
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	7471B	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Prep Batch: 303690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	7471B	
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	7471B	
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	7471B	
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	7471B	
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	7471B	
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	7471B	
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	7471B	
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	7471B	
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	7471B	
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	7471B	
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	7471B	
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	7471B	
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	7471B	
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	7471B	
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	7471B	
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	7471B	
LCS 500-303690/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-303690/12-A	Method Blank	Total/NA	Solid	7471B	

### Prep Batch: 303696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	7471B	
500-100833-21 DU	2618-7-B94 (0-2)	Total/NA	Solid	7471B	
500-100833-21 MS	2618-7-B94 (0-2)	Total/NA	Solid	7471B	
500-100833-21 MSD	2618-7-B94 (0-2)	Total/NA	Solid	7471B	
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	7471B	
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	7471B	
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	7471B	
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	7471B	
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	7471B	
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	7471B	
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	7471B	
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	7471B	
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	7471B	
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	7471B	
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	7471B	
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	7471B	
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	7471B	
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	7471B	
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	7471B	
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	7471B	
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	7471B	
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	7471B	
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	7471B	
LCS 500-303696/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-303696/12-A	Method Blank	Total/NA	Solid	7471B	

### Leach Batch: 303760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	SPLP East	Solid	1312	
500-100833-1 DU	2618-7-B45 (0-6)	SPLP East	Solid	1312	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Leach Batch: 303760 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1 MS	2618-7-B45 (0-6)	SPLP East	Solid	1312	
500-100833-2	2618-7-B45 (6-13)	SPLP East	Solid	1312	
500-100833-2 DU	2618-7-B45 (6-13)	SPLP East	Solid	1312	
500-100833-2 MS	2618-7-B45 (6-13)	SPLP East	Solid	1312	
500-100833-3	2618-7-B46 (0-2)	SPLP East	Solid	1312	
500-100833-4	2618-7-B47 (0-2)	SPLP East	Solid	1312	
500-100833-5	2618-7-B48 (0-2)	SPLP East	Solid	1312	
500-100833-6	2618-7-B49 (0-2)	SPLP East	Solid	1312	
500-100833-7	2618-7-B50 (0-2)	SPLP East	Solid	1312	
500-100833-8	2618-7-B50 DUP (0-2)	SPLP East	Solid	1312	
500-100833-9	2618-7-B51 (0-2)	SPLP East	Solid	1312	
500-100833-10	2618-7-B52 (0-2)	SPLP East	Solid	1312	
500-100833-11	2618-7-B53 (0-2)	SPLP East	Solid	1312	
500-100833-12	2618-7-B54 (0-2)	SPLP East	Solid	1312	
500-100833-13	2618-7-B55 (0-2)	SPLP East	Solid	1312	
500-100833-14	2618-7-B56 (0-2)	SPLP East	Solid	1312	
500-100833-15	2618-7-B88 (0-2)	SPLP East	Solid	1312	
500-100833-16	2618-7-B89 (0-2)	SPLP East	Solid	1312	
500-100833-17	2618-7-B90 (0-2)	SPLP East	Solid	1312	
500-100833-18	2618-7-B91 (0-2)	SPLP East	Solid	1312	
500-100833-19	2618-7-B92 (0-2)	SPLP East	Solid	1312	
500-100833-20	2618-7-B93 (0-2)	SPLP East	Solid	1312	
LB 500-303760/1-B	Method Blank	SPLP East	Solid	1312	
LB 500-303760/1-C	Method Blank	SPLP East	Solid	1312	

### Leach Batch: 303761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	SPLP East	Solid	1312	
500-100833-22	2618-7-B95 (0-2)	SPLP East	Solid	1312	
500-100833-22 DU	2618-7-B95 (0-2)	SPLP East	Solid	1312	
500-100833-22 MS	2618-7-B95 (0-2)	SPLP East	Solid	1312	
500-100833-23	2618-7-B95 DUP (0-2)	SPLP East	Solid	1312	
500-100833-24	2618-7-B96 (0-2)	SPLP East	Solid	1312	
500-100833-25	2618-7-B97 (0-2)	SPLP East	Solid	1312	
500-100833-26	2618-7-B98 (0-2)	SPLP East	Solid	1312	
500-100833-27	2618-7-B99 (0-2)	SPLP East	Solid	1312	
500-100833-28	2618-7-B100 (0-2)	SPLP East	Solid	1312	
500-100833-29	2618-7-B101 (0-2)	SPLP East	Solid	1312	
500-100833-30	2618-7-B102 (0-2)	SPLP East	Solid	1312	
500-100833-30 DU	2618-7-B102 (0-2)	SPLP East	Solid	1312	
500-100833-30 MS	2618-7-B102 (0-2)	SPLP East	Solid	1312	
500-100833-31	2618-7-B103 (0-2)	SPLP East	Solid	1312	
500-100833-32	2618-7-B104 (0-2)	SPLP East	Solid	1312	
500-100833-33	2618-7-B105 (0-2)	SPLP East	Solid	1312	
500-100833-34	2618-7-B106 (0-2)	SPLP East	Solid	1312	
500-100833-35	2618-7-B107 (0-2)	SPLP East	Solid	1312	
500-100833-36	2618-7-B108 (0-2)	SPLP East	Solid	1312	
500-100833-37	2618-7-B109 (0-2)	SPLP East	Solid	1312	
500-100833-38	2618-7-B110 (0-2)	SPLP East	Solid	1312	
500-100833-39	2618-7-B110 DUP (0-2)	SPLP East	Solid	1312	
500-100833-40	2618-7-B111 (0-2)	SPLP East	Solid	1312	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Leach Batch: 303761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-303761/1-B	Method Blank	SPLP East	Solid	1312	
LB 500-303761/1-C	Method Blank	SPLP East	Solid	1312	

### Analysis Batch: 303871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-21 DU	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-21 MS	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-21 MSD	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	6010B	303585
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	6010B	303585
LCS 500-303585/2-A	Lab Control Sample	Total/NA	Solid	6010B	303585
MB 500-303585/1-A	Method Blank	Total/NA	Solid	6010B	303585

### Prep Batch: 303916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	SPLP East	Solid	3010A	303760
500-100833-1 DU	2618-7-B45 (0-6)	SPLP East	Solid	3010A	303760
500-100833-1 MS	2618-7-B45 (0-6)	SPLP East	Solid	3010A	303760
500-100833-2	2618-7-B45 (6-13)	SPLP East	Solid	3010A	303760
500-100833-3	2618-7-B46 (0-2)	SPLP East	Solid	3010A	303760
500-100833-4	2618-7-B47 (0-2)	SPLP East	Solid	3010A	303760
500-100833-5	2618-7-B48 (0-2)	SPLP East	Solid	3010A	303760
500-100833-6	2618-7-B49 (0-2)	SPLP East	Solid	3010A	303760
500-100833-7	2618-7-B50 (0-2)	SPLP East	Solid	3010A	303760
500-100833-8	2618-7-B50 DUP (0-2)	SPLP East	Solid	3010A	303760
500-100833-9	2618-7-B51 (0-2)	SPLP East	Solid	3010A	303760
500-100833-10	2618-7-B52 (0-2)	SPLP East	Solid	3010A	303760
500-100833-11	2618-7-B53 (0-2)	SPLP East	Solid	3010A	303760
500-100833-12	2618-7-B54 (0-2)	SPLP East	Solid	3010A	303760
500-100833-13	2618-7-B55 (0-2)	SPLP East	Solid	3010A	303760
500-100833-14	2618-7-B56 (0-2)	SPLP East	Solid	3010A	303760
500-100833-15	2618-7-B88 (0-2)	SPLP East	Solid	3010A	303760
500-100833-16	2618-7-B89 (0-2)	SPLP East	Solid	3010A	303760
500-100833-17	2618-7-B90 (0-2)	SPLP East	Solid	3010A	303760
500-100833-18	2618-7-B91 (0-2)	SPLP East	Solid	3010A	303760
500-100833-19	2618-7-B92 (0-2)	SPLP East	Solid	3010A	303760
500-100833-20	2618-7-B93 (0-2)	SPLP East	Solid	3010A	303760
LB 500-303760/1-B	Method Blank	SPLP East	Solid	3010A	303760
LCS 500-303916/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 303917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	SPLP East	Solid	3010A	303761
500-100833-22	2618-7-B95 (0-2)	SPLP East	Solid	3010A	303761
500-100833-23	2618-7-B95 DUP (0-2)	SPLP East	Solid	3010A	303761
500-100833-24	2618-7-B96 (0-2)	SPLP East	Solid	3010A	303761
500-100833-25	2618-7-B97 (0-2)	SPLP East	Solid	3010A	303761
500-100833-26	2618-7-B98 (0-2)	SPLP East	Solid	3010A	303761
500-100833-27	2618-7-B99 (0-2)	SPLP East	Solid	3010A	303761
500-100833-28	2618-7-B100 (0-2)	SPLP East	Solid	3010A	303761

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Prep Batch: 303917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-29	2618-7-B101 (0-2)	SPLP East	Solid	3010A	303761
500-100833-30	2618-7-B102 (0-2)	SPLP East	Solid	3010A	303761
500-100833-30 DU	2618-7-B102 (0-2)	SPLP East	Solid	3010A	303761
500-100833-30 MS	2618-7-B102 (0-2)	SPLP East	Solid	3010A	303761
500-100833-31	2618-7-B103 (0-2)	SPLP East	Solid	3010A	303761
500-100833-32	2618-7-B104 (0-2)	SPLP East	Solid	3010A	303761
500-100833-33	2618-7-B105 (0-2)	SPLP East	Solid	3010A	303761
500-100833-34	2618-7-B106 (0-2)	SPLP East	Solid	3010A	303761
500-100833-35	2618-7-B107 (0-2)	SPLP East	Solid	3010A	303761
500-100833-36	2618-7-B108 (0-2)	SPLP East	Solid	3010A	303761
500-100833-37	2618-7-B109 (0-2)	SPLP East	Solid	3010A	303761
500-100833-38	2618-7-B110 (0-2)	SPLP East	Solid	3010A	303761
500-100833-39	2618-7-B110 DUP (0-2)	SPLP East	Solid	3010A	303761
500-100833-40	2618-7-B111 (0-2)	SPLP East	Solid	3010A	303761
LB 500-303761/1-B	Method Blank	SPLP East	Solid	3010A	303761
LCS 500-303917/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Leach Batch: 303962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-4	2618-7-B47 (0-2)	TCLP	Solid	1311	
500-100833-6	2618-7-B49 (0-2)	TCLP	Solid	1311	
500-100833-7	2618-7-B50 (0-2)	TCLP	Solid	1311	
500-100833-9	2618-7-B51 (0-2)	TCLP	Solid	1311	
500-100833-10	2618-7-B52 (0-2)	TCLP	Solid	1311	
500-100833-11	2618-7-B53 (0-2)	TCLP	Solid	1311	
500-100833-12	2618-7-B54 (0-2)	TCLP	Solid	1311	
500-100833-14	2618-7-B56 (0-2)	TCLP	Solid	1311	
LB 500-303962/1-B	Method Blank	TCLP	Solid	1311	
LB 500-303962/1-C	Method Blank	TCLP	Solid	1311	

### Leach Batch: 303963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	TCLP	Solid	1311	
500-100833-1 DU	2618-7-B45 (0-6)	TCLP	Solid	1311	
500-100833-1 MS	2618-7-B45 (0-6)	TCLP	Solid	1311	
500-100833-2	2618-7-B45 (6-13)	TCLP	Solid	1311	
500-100833-2 DU	2618-7-B45 (6-13)	TCLP	Solid	1311	
500-100833-2 MS	2618-7-B45 (6-13)	TCLP	Solid	1311	
500-100833-3	2618-7-B46 (0-2)	TCLP	Solid	1311	
500-100833-5	2618-7-B48 (0-2)	TCLP	Solid	1311	
500-100833-8	2618-7-B50 DUP (0-2)	TCLP	Solid	1311	
500-100833-13	2618-7-B55 (0-2)	TCLP	Solid	1311	
500-100833-15	2618-7-B88 (0-2)	TCLP	Solid	1311	
500-100833-16	2618-7-B89 (0-2)	TCLP	Solid	1311	
500-100833-17	2618-7-B90 (0-2)	TCLP	Solid	1311	
500-100833-18	2618-7-B91 (0-2)	TCLP	Solid	1311	
500-100833-20	2618-7-B93 (0-2)	TCLP	Solid	1311	
LB2 500-303963/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-303963/1-C	Method Blank	TCLP	Solid	1311	

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

Analysis Batch: 303974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	7471B	303690
500-100833-1 DU	2618-7-B45 (0-6)	Total/NA	Solid	7471B	303690
500-100833-1 MS	2618-7-B45 (0-6)	Total/NA	Solid	7471B	303690
500-100833-1 MSD	2618-7-B45 (0-6)	Total/NA	Solid	7471B	303690
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	7471B	303690
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	7471B	303690
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	7471B	303690
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	7471B	303690
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	7471B	303690
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	7471B	303690
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	7471B	303690
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	7471B	303690
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	7471B	303690
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	7471B	303690
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	7471B	303690
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	7471B	303690
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	7471B	303690
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	7471B	303690
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	7471B	303690
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	7471B	303690
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	7471B	303690
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	7471B	303690
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	7471B	303690
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	7471B	303696
500-100833-21 DU	2618-7-B94 (0-2)	Total/NA	Solid	7471B	303696
500-100833-21 MS	2618-7-B94 (0-2)	Total/NA	Solid	7471B	303696
500-100833-21 MSD	2618-7-B94 (0-2)	Total/NA	Solid	7471B	303696
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	7471B	303696
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	7471B	303696
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	7471B	303696
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	7471B	303696
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	7471B	303696
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	7471B	303696
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	7471B	303696
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	7471B	303696
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	7471B	303696
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	7471B	303696
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	7471B	303696
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	7471B	303696
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	7471B	303696
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	7471B	303696
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	7471B	303696
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	7471B	303696
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	7471B	303696
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	7471B	303696
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	7471B	303696
LCS 500-303690/13-A	Lab Control Sample	Total/NA	Solid	7471B	303690
LCS 500-303696/13-A	Lab Control Sample	Total/NA	Solid	7471B	303696
MB 500-303690/12-A	Method Blank	Total/NA	Solid	7471B	303690
MB 500-303696/12-A	Method Blank	Total/NA	Solid	7471B	303696

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Prep Batch: 303984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	SPLP East	Solid	7470A	303760
500-100833-2	2618-7-B45 (6-13)	SPLP East	Solid	7470A	303760
500-100833-2 DU	2618-7-B45 (6-13)	SPLP East	Solid	7470A	303760
500-100833-2 MS	2618-7-B45 (6-13)	SPLP East	Solid	7470A	303760
500-100833-3	2618-7-B46 (0-2)	SPLP East	Solid	7470A	303760
500-100833-4	2618-7-B47 (0-2)	SPLP East	Solid	7470A	303760
500-100833-5	2618-7-B48 (0-2)	SPLP East	Solid	7470A	303760
500-100833-6	2618-7-B49 (0-2)	SPLP East	Solid	7470A	303760
500-100833-7	2618-7-B50 (0-2)	SPLP East	Solid	7470A	303760
500-100833-8	2618-7-B50 DUP (0-2)	SPLP East	Solid	7470A	303760
500-100833-9	2618-7-B51 (0-2)	SPLP East	Solid	7470A	303760
500-100833-10	2618-7-B52 (0-2)	SPLP East	Solid	7470A	303760
500-100833-11	2618-7-B53 (0-2)	SPLP East	Solid	7470A	303760
500-100833-12	2618-7-B54 (0-2)	SPLP East	Solid	7470A	303760
500-100833-13	2618-7-B55 (0-2)	SPLP East	Solid	7470A	303760
500-100833-14	2618-7-B56 (0-2)	SPLP East	Solid	7470A	303760
500-100833-15	2618-7-B88 (0-2)	SPLP East	Solid	7470A	303760
500-100833-16	2618-7-B89 (0-2)	SPLP East	Solid	7470A	303760
500-100833-17	2618-7-B90 (0-2)	SPLP East	Solid	7470A	303760
500-100833-18	2618-7-B91 (0-2)	SPLP East	Solid	7470A	303760
500-100833-19	2618-7-B92 (0-2)	SPLP East	Solid	7470A	303760
500-100833-20	2618-7-B93 (0-2)	SPLP East	Solid	7470A	303760
LB 500-303760/1-C	Method Blank	SPLP East	Solid	7470A	303760
LCS 500-303984/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-303984/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 303985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	SPLP East	Solid	7470A	303761
500-100833-22	2618-7-B95 (0-2)	SPLP East	Solid	7470A	303761
500-100833-22 DU	2618-7-B95 (0-2)	SPLP East	Solid	7470A	303761
500-100833-22 MS	2618-7-B95 (0-2)	SPLP East	Solid	7470A	303761
500-100833-23	2618-7-B95 DUP (0-2)	SPLP East	Solid	7470A	303761
500-100833-24	2618-7-B96 (0-2)	SPLP East	Solid	7470A	303761
500-100833-25	2618-7-B97 (0-2)	SPLP East	Solid	7470A	303761
500-100833-26	2618-7-B98 (0-2)	SPLP East	Solid	7470A	303761
500-100833-27	2618-7-B99 (0-2)	SPLP East	Solid	7470A	303761
500-100833-28	2618-7-B100 (0-2)	SPLP East	Solid	7470A	303761
500-100833-29	2618-7-B101 (0-2)	SPLP East	Solid	7470A	303761
500-100833-30	2618-7-B102 (0-2)	SPLP East	Solid	7470A	303761
500-100833-31	2618-7-B103 (0-2)	SPLP East	Solid	7470A	303761
500-100833-32	2618-7-B104 (0-2)	SPLP East	Solid	7470A	303761
500-100833-33	2618-7-B105 (0-2)	SPLP East	Solid	7470A	303761
500-100833-34	2618-7-B106 (0-2)	SPLP East	Solid	7470A	303761
500-100833-35	2618-7-B107 (0-2)	SPLP East	Solid	7470A	303761
500-100833-36	2618-7-B108 (0-2)	SPLP East	Solid	7470A	303761
500-100833-37	2618-7-B109 (0-2)	SPLP East	Solid	7470A	303761
500-100833-38	2618-7-B110 (0-2)	SPLP East	Solid	7470A	303761
500-100833-39	2618-7-B110 DUP (0-2)	SPLP East	Solid	7470A	303761
500-100833-40	2618-7-B111 (0-2)	SPLP East	Solid	7470A	303761
LB 500-303761/1-C	Method Blank	SPLP East	Solid	7470A	303761

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Prep Batch: 303985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303985/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-303985/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 304045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	TCLP	Solid	3010A	303963
500-100833-1 DU	2618-7-B45 (0-6)	TCLP	Solid	3010A	303963
500-100833-1 MS	2618-7-B45 (0-6)	TCLP	Solid	3010A	303963
500-100833-2	2618-7-B45 (6-13)	TCLP	Solid	3010A	303963
500-100833-3	2618-7-B46 (0-2)	TCLP	Solid	3010A	303963
500-100833-4	2618-7-B47 (0-2)	TCLP	Solid	3010A	303962
500-100833-5	2618-7-B48 (0-2)	TCLP	Solid	3010A	303963
500-100833-6	2618-7-B49 (0-2)	TCLP	Solid	3010A	303962
500-100833-7	2618-7-B50 (0-2)	TCLP	Solid	3010A	303962
500-100833-8	2618-7-B50 DUP (0-2)	TCLP	Solid	3010A	303963
500-100833-9	2618-7-B51 (0-2)	TCLP	Solid	3010A	303962
500-100833-10	2618-7-B52 (0-2)	TCLP	Solid	3010A	303962
500-100833-11	2618-7-B53 (0-2)	TCLP	Solid	3010A	303962
500-100833-12	2618-7-B54 (0-2)	TCLP	Solid	3010A	303962
500-100833-13	2618-7-B55 (0-2)	TCLP	Solid	3010A	303963
500-100833-14	2618-7-B56 (0-2)	TCLP	Solid	3010A	303962
500-100833-15	2618-7-B88 (0-2)	TCLP	Solid	3010A	303963
500-100833-16	2618-7-B89 (0-2)	TCLP	Solid	3010A	303963
500-100833-17	2618-7-B90 (0-2)	TCLP	Solid	3010A	303963
500-100833-18	2618-7-B91 (0-2)	TCLP	Solid	3010A	303963
500-100833-20	2618-7-B93 (0-2)	TCLP	Solid	3010A	303963
LB 500-303962/1-B	Method Blank	TCLP	Solid	3010A	303962
LB2 500-303963/1-B	Method Blank	TCLP	Solid	3010A	303963
LCS 500-304045/3-A	Lab Control Sample	Total/NA	Solid	3010A	

### Leach Batch: 304061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-27	2618-7-B99 (0-2)	TCLP	Solid	1311	
500-100833-30	2618-7-B102 (0-2)	TCLP	Solid	1311	
LB 500-304061/1-D	Method Blank	TCLP	Solid	1311	
LB 500-304061/1-E	Method Blank	TCLP	Solid	1311	

### Leach Batch: 304062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-19	2618-7-B92 (0-2)	TCLP	Solid	1311	
500-100833-19 DU	2618-7-B92 (0-2)	TCLP	Solid	1311	
500-100833-19 MS	2618-7-B92 (0-2)	TCLP	Solid	1311	
500-100833-21	2618-7-B94 (0-2)	TCLP	Solid	1311	
500-100833-22	2618-7-B95 (0-2)	TCLP	Solid	1311	
500-100833-22 DU	2618-7-B95 (0-2)	TCLP	Solid	1311	
500-100833-22 MS	2618-7-B95 (0-2)	TCLP	Solid	1311	
500-100833-23	2618-7-B95 DUP (0-2)	TCLP	Solid	1311	
500-100833-24	2618-7-B96 (0-2)	TCLP	Solid	1311	
500-100833-25	2618-7-B97 (0-2)	TCLP	Solid	1311	
500-100833-26	2618-7-B98 (0-2)	TCLP	Solid	1311	
500-100833-28	2618-7-B100 (0-2)	TCLP	Solid	1311	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Leach Batch: 304062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-29	2618-7-B101 (0-2)	TCLP	Solid	1311	
LB2 500-304062/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-304062/1-C	Method Blank	TCLP	Solid	1311	

### Analysis Batch: 304072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	SPLP East	Solid	6010B	303916
500-100833-1 DU	2618-7-B45 (0-6)	SPLP East	Solid	6010B	303916
500-100833-1 MS	2618-7-B45 (0-6)	SPLP East	Solid	6010B	303916
500-100833-2	2618-7-B45 (6-13)	SPLP East	Solid	6010B	303916
500-100833-3	2618-7-B46 (0-2)	SPLP East	Solid	6010B	303916
500-100833-4	2618-7-B47 (0-2)	SPLP East	Solid	6010B	303916
500-100833-5	2618-7-B48 (0-2)	SPLP East	Solid	6010B	303916
500-100833-6	2618-7-B49 (0-2)	SPLP East	Solid	6010B	303916
500-100833-7	2618-7-B50 (0-2)	SPLP East	Solid	6010B	303916
500-100833-8	2618-7-B50 DUP (0-2)	SPLP East	Solid	6010B	303916
500-100833-9	2618-7-B51 (0-2)	SPLP East	Solid	6010B	303916
500-100833-10	2618-7-B52 (0-2)	SPLP East	Solid	6010B	303916
500-100833-11	2618-7-B53 (0-2)	SPLP East	Solid	6010B	303916
500-100833-12	2618-7-B54 (0-2)	SPLP East	Solid	6010B	303916
500-100833-13	2618-7-B55 (0-2)	SPLP East	Solid	6010B	303916
500-100833-14	2618-7-B56 (0-2)	SPLP East	Solid	6010B	303916
500-100833-15	2618-7-B88 (0-2)	SPLP East	Solid	6010B	303916
500-100833-16	2618-7-B89 (0-2)	SPLP East	Solid	6010B	303916
500-100833-17	2618-7-B90 (0-2)	SPLP East	Solid	6010B	303916
500-100833-18	2618-7-B91 (0-2)	SPLP East	Solid	6010B	303916
500-100833-19	2618-7-B92 (0-2)	SPLP East	Solid	6010B	303916
500-100833-20	2618-7-B93 (0-2)	SPLP East	Solid	6010B	303916
LB 500-303760/1-B	Method Blank	SPLP East	Solid	6010B	303916
LCS 500-303916/2-A	Lab Control Sample	Total/NA	Solid	6010B	303916

### Analysis Batch: 304074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	SPLP East	Solid	6010B	303917
500-100833-22	2618-7-B95 (0-2)	SPLP East	Solid	6010B	303917
500-100833-23	2618-7-B95 DUP (0-2)	SPLP East	Solid	6010B	303917
500-100833-24	2618-7-B96 (0-2)	SPLP East	Solid	6010B	303917
500-100833-25	2618-7-B97 (0-2)	SPLP East	Solid	6010B	303917
500-100833-26	2618-7-B98 (0-2)	SPLP East	Solid	6010B	303917
500-100833-27	2618-7-B99 (0-2)	SPLP East	Solid	6010B	303917
500-100833-28	2618-7-B100 (0-2)	SPLP East	Solid	6010B	303917
500-100833-29	2618-7-B101 (0-2)	SPLP East	Solid	6010B	303917
500-100833-30	2618-7-B102 (0-2)	SPLP East	Solid	6010B	303917
500-100833-30 DU	2618-7-B102 (0-2)	SPLP East	Solid	6010B	303917
500-100833-30 MS	2618-7-B102 (0-2)	SPLP East	Solid	6010B	303917
500-100833-31	2618-7-B103 (0-2)	SPLP East	Solid	6010B	303917
500-100833-32	2618-7-B104 (0-2)	SPLP East	Solid	6010B	303917
500-100833-33	2618-7-B105 (0-2)	SPLP East	Solid	6010B	303917
500-100833-34	2618-7-B106 (0-2)	SPLP East	Solid	6010B	303917
500-100833-35	2618-7-B107 (0-2)	SPLP East	Solid	6010B	303917
500-100833-36	2618-7-B108 (0-2)	SPLP East	Solid	6010B	303917

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Analysis Batch: 304074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-37	2618-7-B109 (0-2)	SPLP East	Solid	6010B	303917
500-100833-38	2618-7-B110 (0-2)	SPLP East	Solid	6010B	303917
500-100833-39	2618-7-B110 DUP (0-2)	SPLP East	Solid	6010B	303917
500-100833-40	2618-7-B111 (0-2)	SPLP East	Solid	6010B	303917
LB 500-303761/1-B	Method Blank	SPLP East	Solid	6010B	303917
LCS 500-303917/2-A	Lab Control Sample	Total/NA	Solid	6010B	303917

### Analysis Batch: 304083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-21 DU	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-21 MS	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-21 MSD	2618-7-B94 (0-2)	Total/NA	Solid	6010B	303585
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	6010B	303585
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	6010B	303585
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	6010B	303585
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	6010B	303585
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	6010B	303585
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	6010B	303585
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	6010B	303585
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	6010B	303585
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	6010B	303585
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	6010B	303585
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	6010B	303585
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	6010B	303585
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	6010B	303585
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	6010B	303585
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	6010B	303585
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	6010B	303585
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	6010B	303585
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	6010B	303585
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	6010B	303585
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	6010B	303585
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	6010B	303585
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	6010B	303585
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	6010B	303585
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	6010B	303585
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	6010B	303585
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	6010B	303585
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	6010B	303585
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	6010B	303585

### Prep Batch: 304146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-19	2618-7-B92 (0-2)	TCLP	Solid	3010A	304062
500-100833-19 DU	2618-7-B92 (0-2)	TCLP	Solid	3010A	304062
500-100833-19 MS	2618-7-B92 (0-2)	TCLP	Solid	3010A	304062
500-100833-21	2618-7-B94 (0-2)	TCLP	Solid	3010A	304062
500-100833-22	2618-7-B95 (0-2)	TCLP	Solid	3010A	304062
500-100833-23	2618-7-B95 DUP (0-2)	TCLP	Solid	3010A	304062
500-100833-24	2618-7-B96 (0-2)	TCLP	Solid	3010A	304062

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Prep Batch: 304146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-25	2618-7-B97 (0-2)	TCLP	Solid	3010A	304062
500-100833-26	2618-7-B98 (0-2)	TCLP	Solid	3010A	304062
500-100833-27	2618-7-B99 (0-2)	TCLP	Solid	3010A	304061
500-100833-28	2618-7-B100 (0-2)	TCLP	Solid	3010A	304062
500-100833-29	2618-7-B101 (0-2)	TCLP	Solid	3010A	304062
500-100833-30	2618-7-B102 (0-2)	TCLP	Solid	3010A	304061
LB 500-304061/1-D	Method Blank	TCLP	Solid	3010A	304061
LB2 500-304062/1-B	Method Blank	TCLP	Solid	3010A	304062
LCS 500-304146/3-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	SPLP East	Solid	7470A	303984
500-100833-2	2618-7-B45 (6-13)	SPLP East	Solid	7470A	303984
500-100833-2 DU	2618-7-B45 (6-13)	SPLP East	Solid	7470A	303984
500-100833-2 MS	2618-7-B45 (6-13)	SPLP East	Solid	7470A	303984
500-100833-3	2618-7-B46 (0-2)	SPLP East	Solid	7470A	303984
500-100833-4	2618-7-B47 (0-2)	SPLP East	Solid	7470A	303984
500-100833-5	2618-7-B48 (0-2)	SPLP East	Solid	7470A	303984
500-100833-6	2618-7-B49 (0-2)	SPLP East	Solid	7470A	303984
500-100833-7	2618-7-B50 (0-2)	SPLP East	Solid	7470A	303984
500-100833-8	2618-7-B50 DUP (0-2)	SPLP East	Solid	7470A	303984
500-100833-9	2618-7-B51 (0-2)	SPLP East	Solid	7470A	303984
500-100833-10	2618-7-B52 (0-2)	SPLP East	Solid	7470A	303984
500-100833-11	2618-7-B53 (0-2)	SPLP East	Solid	7470A	303984
500-100833-12	2618-7-B54 (0-2)	SPLP East	Solid	7470A	303984
500-100833-13	2618-7-B55 (0-2)	SPLP East	Solid	7470A	303984
500-100833-14	2618-7-B56 (0-2)	SPLP East	Solid	7470A	303984
500-100833-15	2618-7-B88 (0-2)	SPLP East	Solid	7470A	303984
500-100833-16	2618-7-B89 (0-2)	SPLP East	Solid	7470A	303984
500-100833-17	2618-7-B90 (0-2)	SPLP East	Solid	7470A	303984
500-100833-18	2618-7-B91 (0-2)	SPLP East	Solid	7470A	303984
500-100833-19	2618-7-B92 (0-2)	SPLP East	Solid	7470A	303984
500-100833-20	2618-7-B93 (0-2)	SPLP East	Solid	7470A	303984
500-100833-21	2618-7-B94 (0-2)	SPLP East	Solid	7470A	303985
500-100833-22	2618-7-B95 (0-2)	SPLP East	Solid	7470A	303985
500-100833-22 DU	2618-7-B95 (0-2)	SPLP East	Solid	7470A	303985
500-100833-22 MS	2618-7-B95 (0-2)	SPLP East	Solid	7470A	303985
500-100833-23	2618-7-B95 DUP (0-2)	SPLP East	Solid	7470A	303985
500-100833-24	2618-7-B96 (0-2)	SPLP East	Solid	7470A	303985
500-100833-25	2618-7-B97 (0-2)	SPLP East	Solid	7470A	303985
500-100833-26	2618-7-B98 (0-2)	SPLP East	Solid	7470A	303985
500-100833-27	2618-7-B99 (0-2)	SPLP East	Solid	7470A	303985
500-100833-28	2618-7-B100 (0-2)	SPLP East	Solid	7470A	303985
500-100833-29	2618-7-B101 (0-2)	SPLP East	Solid	7470A	303985
500-100833-30	2618-7-B102 (0-2)	SPLP East	Solid	7470A	303985
500-100833-31	2618-7-B103 (0-2)	SPLP East	Solid	7470A	303985
500-100833-32	2618-7-B104 (0-2)	SPLP East	Solid	7470A	303985
500-100833-33	2618-7-B105 (0-2)	SPLP East	Solid	7470A	303985
500-100833-34	2618-7-B106 (0-2)	SPLP East	Solid	7470A	303985
500-100833-35	2618-7-B107 (0-2)	SPLP East	Solid	7470A	303985

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Analysis Batch: 304163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-36	2618-7-B108 (0-2)	SPLP East	Solid	7470A	303985
500-100833-37	2618-7-B109 (0-2)	SPLP East	Solid	7470A	303985
500-100833-38	2618-7-B110 (0-2)	SPLP East	Solid	7470A	303985
500-100833-39	2618-7-B110 DUP (0-2)	SPLP East	Solid	7470A	303985
500-100833-40	2618-7-B111 (0-2)	SPLP East	Solid	7470A	303985
LB 500-303760/1-C	Method Blank	SPLP East	Solid	7470A	303984
LB 500-303761/1-C	Method Blank	SPLP East	Solid	7470A	303985
LCS 500-303984/13-A	Lab Control Sample	Total/NA	Solid	7470A	303984
LCS 500-303985/13-A	Lab Control Sample	Total/NA	Solid	7470A	303985
MB 500-303984/12-A	Method Blank	Total/NA	Solid	7470A	303984
MB 500-303985/12-A	Method Blank	Total/NA	Solid	7470A	303985

### Prep Batch: 304181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	TCLP	Solid	7470A	303963
500-100833-2	2618-7-B45 (6-13)	TCLP	Solid	7470A	303963
500-100833-2 DU	2618-7-B45 (6-13)	TCLP	Solid	7470A	303963
500-100833-2 MS	2618-7-B45 (6-13)	TCLP	Solid	7470A	303963
500-100833-3	2618-7-B46 (0-2)	TCLP	Solid	7470A	303963
500-100833-4	2618-7-B47 (0-2)	TCLP	Solid	7470A	303962
500-100833-5	2618-7-B48 (0-2)	TCLP	Solid	7470A	303963
500-100833-6	2618-7-B49 (0-2)	TCLP	Solid	7470A	303962
500-100833-7	2618-7-B50 (0-2)	TCLP	Solid	7470A	303962
500-100833-8	2618-7-B50 DUP (0-2)	TCLP	Solid	7470A	303963
500-100833-9	2618-7-B51 (0-2)	TCLP	Solid	7470A	303962
500-100833-10	2618-7-B52 (0-2)	TCLP	Solid	7470A	303962
500-100833-11	2618-7-B53 (0-2)	TCLP	Solid	7470A	303962
500-100833-12	2618-7-B54 (0-2)	TCLP	Solid	7470A	303962
500-100833-13	2618-7-B55 (0-2)	TCLP	Solid	7470A	303963
500-100833-14	2618-7-B56 (0-2)	TCLP	Solid	7470A	303962
500-100833-15	2618-7-B88 (0-2)	TCLP	Solid	7470A	303963
500-100833-16	2618-7-B89 (0-2)	TCLP	Solid	7470A	303963
500-100833-17	2618-7-B90 (0-2)	TCLP	Solid	7470A	303963
500-100833-18	2618-7-B91 (0-2)	TCLP	Solid	7470A	303963
500-100833-20	2618-7-B93 (0-2)	TCLP	Solid	7470A	303963
LB 500-303962/1-C	Method Blank	TCLP	Solid	7470A	303962
LB2 500-303963/1-C	Method Blank	TCLP	Solid	7470A	303963
LCS 500-304181/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304181/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 304182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-19	2618-7-B92 (0-2)	TCLP	Solid	7470A	304062
500-100833-21	2618-7-B94 (0-2)	TCLP	Solid	7470A	304062
500-100833-22	2618-7-B95 (0-2)	TCLP	Solid	7470A	304062
500-100833-22 DU	2618-7-B95 (0-2)	TCLP	Solid	7470A	304062
500-100833-22 MS	2618-7-B95 (0-2)	TCLP	Solid	7470A	304062
500-100833-23	2618-7-B95 DUP (0-2)	TCLP	Solid	7470A	304062
500-100833-24	2618-7-B96 (0-2)	TCLP	Solid	7470A	304062
500-100833-25	2618-7-B97 (0-2)	TCLP	Solid	7470A	304062
500-100833-26	2618-7-B98 (0-2)	TCLP	Solid	7470A	304062

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100833-1

## Metals (Continued)

### Prep Batch: 304182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-27	2618-7-B99 (0-2)	TCLP	Solid	7470A	304061
500-100833-28	2618-7-B100 (0-2)	TCLP	Solid	7470A	304062
500-100833-29	2618-7-B101 (0-2)	TCLP	Solid	7470A	304062
500-100833-30	2618-7-B102 (0-2)	TCLP	Solid	7470A	304061
LB 500-304061/1-E	Method Blank	TCLP	Solid	7470A	304061
LB2 500-304062/1-C	Method Blank	TCLP	Solid	7470A	304062
LCS 500-304182/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304182/12-A	Method Blank	Total/NA	Solid	7470A	

### Leach Batch: 304198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-35	2618-7-B107 (0-2)	TCLP	Solid	1311	
500-100833-36	2618-7-B108 (0-2)	TCLP	Solid	1311	
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	1311	
LB 500-304198/1-D	Method Blank	TCLP	Solid	1311	
LB 500-304198/1-E	Method Blank	TCLP	Solid	1311	

### Leach Batch: 304205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-31	2618-7-B103 (0-2)	TCLP	Solid	1311	
500-100833-31 DU	2618-7-B103 (0-2)	TCLP	Solid	1311	
500-100833-31 MS	2618-7-B103 (0-2)	TCLP	Solid	1311	
500-100833-32	2618-7-B104 (0-2)	TCLP	Solid	1311	
500-100833-32 DU	2618-7-B104 (0-2)	TCLP	Solid	1311	
500-100833-32 MS	2618-7-B104 (0-2)	TCLP	Solid	1311	
500-100833-33	2618-7-B105 (0-2)	TCLP	Solid	1311	
500-100833-34	2618-7-B106 (0-2)	TCLP	Solid	1311	
500-100833-37	2618-7-B109 (0-2)	TCLP	Solid	1311	
500-100833-38	2618-7-B110 (0-2)	TCLP	Solid	1311	
500-100833-39	2618-7-B110 DUP (0-2)	TCLP	Solid	1311	
LB2 500-304205/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-304205/1-C	Method Blank	TCLP	Solid	1311	

### Analysis Batch: 304279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	6010B	303585
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	6010B	303585
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	6010B	303585
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	6010B	303585
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	6010B	303585
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	6010B	303585
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	6010B	303585

### Analysis Batch: 304285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	TCLP	Solid	6010B	304045
500-100833-1 DU	2618-7-B45 (0-6)	TCLP	Solid	6010B	304045
500-100833-1 MS	2618-7-B45 (0-6)	TCLP	Solid	6010B	304045
500-100833-2	2618-7-B45 (6-13)	TCLP	Solid	6010B	304045
500-100833-3	2618-7-B46 (0-2)	TCLP	Solid	6010B	304045
500-100833-4	2618-7-B47 (0-2)	TCLP	Solid	6010B	304045

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## Metals (Continued)

### Analysis Batch: 304285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-5	2618-7-B48 (0-2)	TCLP	Solid	6010B	304045
500-100833-6	2618-7-B49 (0-2)	TCLP	Solid	6010B	304045
500-100833-7	2618-7-B50 (0-2)	TCLP	Solid	6010B	304045
500-100833-8	2618-7-B50 DUP (0-2)	TCLP	Solid	6010B	304045
500-100833-9	2618-7-B51 (0-2)	TCLP	Solid	6010B	304045
500-100833-10	2618-7-B52 (0-2)	TCLP	Solid	6010B	304045
500-100833-11	2618-7-B53 (0-2)	TCLP	Solid	6010B	304045
500-100833-12	2618-7-B54 (0-2)	TCLP	Solid	6010B	304045
500-100833-13	2618-7-B55 (0-2)	TCLP	Solid	6010B	304045
500-100833-14	2618-7-B56 (0-2)	TCLP	Solid	6010B	304045
500-100833-15	2618-7-B88 (0-2)	TCLP	Solid	6010B	304045
500-100833-16	2618-7-B89 (0-2)	TCLP	Solid	6010B	304045
500-100833-17	2618-7-B90 (0-2)	TCLP	Solid	6010B	304045
500-100833-18	2618-7-B91 (0-2)	TCLP	Solid	6010B	304045
500-100833-20	2618-7-B93 (0-2)	TCLP	Solid	6010B	304045
LB 500-303962/1-B	Method Blank	TCLP	Solid	6010B	304045
LB2 500-303963/1-B	Method Blank	TCLP	Solid	6010B	304045
LCS 500-304045/3-A	Lab Control Sample	Total/NA	Solid	6010B	304045

### Analysis Batch: 304289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-19	2618-7-B92 (0-2)	TCLP	Solid	6010B	304146
500-100833-19 DU	2618-7-B92 (0-2)	TCLP	Solid	6010B	304146
500-100833-19 MS	2618-7-B92 (0-2)	TCLP	Solid	6010B	304146
500-100833-21	2618-7-B94 (0-2)	TCLP	Solid	6010B	304146
500-100833-22	2618-7-B95 (0-2)	TCLP	Solid	6010B	304146
500-100833-23	2618-7-B95 DUP (0-2)	TCLP	Solid	6010B	304146
500-100833-24	2618-7-B96 (0-2)	TCLP	Solid	6010B	304146
500-100833-25	2618-7-B97 (0-2)	TCLP	Solid	6010B	304146
500-100833-26	2618-7-B98 (0-2)	TCLP	Solid	6010B	304146
500-100833-27	2618-7-B99 (0-2)	TCLP	Solid	6010B	304146
500-100833-28	2618-7-B100 (0-2)	TCLP	Solid	6010B	304146
500-100833-29	2618-7-B101 (0-2)	TCLP	Solid	6010B	304146
500-100833-30	2618-7-B102 (0-2)	TCLP	Solid	6010B	304146
LB 500-304061/1-D	Method Blank	TCLP	Solid	6010B	304146
LB2 500-304062/1-B	Method Blank	TCLP	Solid	6010B	304146
LCS 500-304146/3-A	Lab Control Sample	Total/NA	Solid	6010B	304146

### Analysis Batch: 304371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-19	2618-7-B92 (0-2)	TCLP	Solid	6010B	304146
500-100833-19 DU	2618-7-B92 (0-2)	TCLP	Solid	6010B	304146
500-100833-19 MS	2618-7-B92 (0-2)	TCLP	Solid	6010B	304146
500-100833-25	2618-7-B97 (0-2)	TCLP	Solid	6010B	304146
500-100833-26	2618-7-B98 (0-2)	TCLP	Solid	6010B	304146

### Analysis Batch: 304373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	TCLP	Solid	7470A	304181
500-100833-2	2618-7-B45 (6-13)	TCLP	Solid	7470A	304181
500-100833-2 DU	2618-7-B45 (6-13)	TCLP	Solid	7470A	304181

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## Metals (Continued)

### Analysis Batch: 304373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-2 MS	2618-7-B45 (6-13)	TCLP	Solid	7470A	304181
500-100833-3	2618-7-B46 (0-2)	TCLP	Solid	7470A	304181
500-100833-4	2618-7-B47 (0-2)	TCLP	Solid	7470A	304181
500-100833-5	2618-7-B48 (0-2)	TCLP	Solid	7470A	304181
500-100833-6	2618-7-B49 (0-2)	TCLP	Solid	7470A	304181
500-100833-7	2618-7-B50 (0-2)	TCLP	Solid	7470A	304181
500-100833-8	2618-7-B50 DUP (0-2)	TCLP	Solid	7470A	304181
500-100833-9	2618-7-B51 (0-2)	TCLP	Solid	7470A	304181
500-100833-10	2618-7-B52 (0-2)	TCLP	Solid	7470A	304181
500-100833-11	2618-7-B53 (0-2)	TCLP	Solid	7470A	304181
500-100833-12	2618-7-B54 (0-2)	TCLP	Solid	7470A	304181
500-100833-13	2618-7-B55 (0-2)	TCLP	Solid	7470A	304181
500-100833-14	2618-7-B56 (0-2)	TCLP	Solid	7470A	304181
500-100833-15	2618-7-B88 (0-2)	TCLP	Solid	7470A	304181
500-100833-16	2618-7-B89 (0-2)	TCLP	Solid	7470A	304181
500-100833-17	2618-7-B90 (0-2)	TCLP	Solid	7470A	304181
500-100833-18	2618-7-B91 (0-2)	TCLP	Solid	7470A	304181
500-100833-19	2618-7-B92 (0-2)	TCLP	Solid	7470A	304182
500-100833-20	2618-7-B93 (0-2)	TCLP	Solid	7470A	304181
500-100833-21	2618-7-B94 (0-2)	TCLP	Solid	7470A	304182
500-100833-22	2618-7-B95 (0-2)	TCLP	Solid	7470A	304182
500-100833-22 DU	2618-7-B95 (0-2)	TCLP	Solid	7470A	304182
500-100833-22 MS	2618-7-B95 (0-2)	TCLP	Solid	7470A	304182
500-100833-23	2618-7-B95 DUP (0-2)	TCLP	Solid	7470A	304182
500-100833-24	2618-7-B96 (0-2)	TCLP	Solid	7470A	304182
500-100833-25	2618-7-B97 (0-2)	TCLP	Solid	7470A	304182
500-100833-26	2618-7-B98 (0-2)	TCLP	Solid	7470A	304182
500-100833-27	2618-7-B99 (0-2)	TCLP	Solid	7470A	304182
500-100833-28	2618-7-B100 (0-2)	TCLP	Solid	7470A	304182
500-100833-29	2618-7-B101 (0-2)	TCLP	Solid	7470A	304182
500-100833-30	2618-7-B102 (0-2)	TCLP	Solid	7470A	304182
LB 500-303962/1-C	Method Blank	TCLP	Solid	7470A	304181
LB 500-304061/1-E	Method Blank	TCLP	Solid	7470A	304182
LB2 500-303963/1-C	Method Blank	TCLP	Solid	7470A	304181
LB2 500-304062/1-C	Method Blank	TCLP	Solid	7470A	304182
LCS 500-304181/13-A	Lab Control Sample	Total/NA	Solid	7470A	304181
LCS 500-304182/13-A	Lab Control Sample	Total/NA	Solid	7470A	304182
MB 500-304181/12-A	Method Blank	Total/NA	Solid	7470A	304181
MB 500-304182/12-A	Method Blank	Total/NA	Solid	7470A	304182

### Analysis Batch: 304382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	SPLP East	Solid	6020A	303916
500-100833-1	2618-7-B45 (0-6)	TCLP	Solid	6020A	304045
500-100833-1 DU	2618-7-B45 (0-6)	SPLP East	Solid	6020A	303916
500-100833-1 DU	2618-7-B45 (0-6)	TCLP	Solid	6020A	304045
500-100833-1 MS	2618-7-B45 (0-6)	SPLP East	Solid	6020A	303916
500-100833-1 MS	2618-7-B45 (0-6)	TCLP	Solid	6020A	304045
500-100833-2	2618-7-B45 (6-13)	SPLP East	Solid	6020A	303916
500-100833-2	2618-7-B45 (6-13)	TCLP	Solid	6020A	304045
500-100833-3	2618-7-B46 (0-2)	SPLP East	Solid	6020A	303916

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## Metals (Continued)

### Analysis Batch: 304382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-3	2618-7-B46 (0-2)	TCLP	Solid	6020A	304045
500-100833-4	2618-7-B47 (0-2)	SPLP East	Solid	6020A	303916
500-100833-4	2618-7-B47 (0-2)	TCLP	Solid	6020A	304045
500-100833-5	2618-7-B48 (0-2)	SPLP East	Solid	6020A	303916
500-100833-5	2618-7-B48 (0-2)	TCLP	Solid	6020A	304045
500-100833-6	2618-7-B49 (0-2)	SPLP East	Solid	6020A	303916
500-100833-6	2618-7-B49 (0-2)	TCLP	Solid	6020A	304045
500-100833-7	2618-7-B50 (0-2)	SPLP East	Solid	6020A	303916
500-100833-7	2618-7-B50 (0-2)	TCLP	Solid	6020A	304045
500-100833-8	2618-7-B50 DUP (0-2)	SPLP East	Solid	6020A	303916
500-100833-8	2618-7-B50 DUP (0-2)	TCLP	Solid	6020A	304045
500-100833-9	2618-7-B51 (0-2)	SPLP East	Solid	6020A	303916
500-100833-9	2618-7-B51 (0-2)	TCLP	Solid	6020A	304045
500-100833-10	2618-7-B52 (0-2)	SPLP East	Solid	6020A	303916
500-100833-10	2618-7-B52 (0-2)	TCLP	Solid	6020A	304045
500-100833-11	2618-7-B53 (0-2)	SPLP East	Solid	6020A	303916
500-100833-11	2618-7-B53 (0-2)	TCLP	Solid	6020A	304045
500-100833-12	2618-7-B54 (0-2)	SPLP East	Solid	6020A	303916
500-100833-12	2618-7-B54 (0-2)	TCLP	Solid	6020A	304045
500-100833-13	2618-7-B55 (0-2)	SPLP East	Solid	6020A	303916
500-100833-13	2618-7-B55 (0-2)	TCLP	Solid	6020A	304045
500-100833-14	2618-7-B56 (0-2)	SPLP East	Solid	6020A	303916
500-100833-14	2618-7-B56 (0-2)	TCLP	Solid	6020A	304045
500-100833-15	2618-7-B88 (0-2)	SPLP East	Solid	6020A	303916
500-100833-15	2618-7-B88 (0-2)	TCLP	Solid	6020A	304045
500-100833-16	2618-7-B89 (0-2)	SPLP East	Solid	6020A	303916
500-100833-16	2618-7-B89 (0-2)	TCLP	Solid	6020A	304045
500-100833-17	2618-7-B90 (0-2)	SPLP East	Solid	6020A	303916
500-100833-17	2618-7-B90 (0-2)	TCLP	Solid	6020A	304045
500-100833-18	2618-7-B91 (0-2)	SPLP East	Solid	6020A	303916
500-100833-18	2618-7-B91 (0-2)	TCLP	Solid	6020A	304045
500-100833-19	2618-7-B92 (0-2)	SPLP East	Solid	6020A	303916
500-100833-19	2618-7-B92 (0-2)	TCLP	Solid	6020A	304146
500-100833-19 DU	2618-7-B92 (0-2)	TCLP	Solid	6020A	304146
500-100833-19 MS	2618-7-B92 (0-2)	TCLP	Solid	6020A	304146
500-100833-20	2618-7-B93 (0-2)	SPLP East	Solid	6020A	303916
500-100833-20	2618-7-B93 (0-2)	TCLP	Solid	6020A	304045
500-100833-21	2618-7-B94 (0-2)	SPLP East	Solid	6020A	303917
500-100833-21	2618-7-B94 (0-2)	TCLP	Solid	6020A	304146
500-100833-22	2618-7-B95 (0-2)	SPLP East	Solid	6020A	303917
500-100833-22	2618-7-B95 (0-2)	TCLP	Solid	6020A	304146
500-100833-23	2618-7-B95 DUP (0-2)	SPLP East	Solid	6020A	303917
500-100833-23	2618-7-B95 DUP (0-2)	TCLP	Solid	6020A	304146
500-100833-24	2618-7-B96 (0-2)	SPLP East	Solid	6020A	303917
500-100833-24	2618-7-B96 (0-2)	TCLP	Solid	6020A	304146
500-100833-25	2618-7-B97 (0-2)	SPLP East	Solid	6020A	303917
500-100833-25	2618-7-B97 (0-2)	TCLP	Solid	6020A	304146
500-100833-26	2618-7-B98 (0-2)	SPLP East	Solid	6020A	303917
500-100833-26	2618-7-B98 (0-2)	TCLP	Solid	6020A	304146
500-100833-27	2618-7-B99 (0-2)	SPLP East	Solid	6020A	303917
500-100833-27	2618-7-B99 (0-2)	TCLP	Solid	6020A	304146

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## Metals (Continued)

### Analysis Batch: 304382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-28	2618-7-B100 (0-2)	SPLP East	Solid	6020A	303917
500-100833-28	2618-7-B100 (0-2)	TCLP	Solid	6020A	304146
500-100833-29	2618-7-B101 (0-2)	SPLP East	Solid	6020A	303917
500-100833-29	2618-7-B101 (0-2)	TCLP	Solid	6020A	304146
500-100833-30	2618-7-B102 (0-2)	SPLP East	Solid	6020A	303917
500-100833-30	2618-7-B102 (0-2)	TCLP	Solid	6020A	304146
500-100833-30 DU	2618-7-B102 (0-2)	SPLP East	Solid	6020A	303917
500-100833-30 MS	2618-7-B102 (0-2)	SPLP East	Solid	6020A	303917
500-100833-31	2618-7-B103 (0-2)	SPLP East	Solid	6020A	303917
500-100833-32	2618-7-B104 (0-2)	SPLP East	Solid	6020A	303917
500-100833-33	2618-7-B105 (0-2)	SPLP East	Solid	6020A	303917
500-100833-34	2618-7-B106 (0-2)	SPLP East	Solid	6020A	303917
500-100833-35	2618-7-B107 (0-2)	SPLP East	Solid	6020A	303917
500-100833-36	2618-7-B108 (0-2)	SPLP East	Solid	6020A	303917
500-100833-37	2618-7-B109 (0-2)	SPLP East	Solid	6020A	303917
500-100833-38	2618-7-B110 (0-2)	SPLP East	Solid	6020A	303917
500-100833-39	2618-7-B110 DUP (0-2)	SPLP East	Solid	6020A	303917
500-100833-40	2618-7-B111 (0-2)	SPLP East	Solid	6020A	303917
LB 500-303760/1-B	Method Blank	SPLP East	Solid	6020A	303916
LB 500-303761/1-B	Method Blank	SPLP East	Solid	6020A	303917
LB 500-303962/1-B	Method Blank	TCLP	Solid	6020A	304045
LB 500-304061/1-D	Method Blank	TCLP	Solid	6020A	304146
LB2 500-303963/1-B	Method Blank	TCLP	Solid	6020A	304045
LB2 500-304062/1-B	Method Blank	TCLP	Solid	6020A	304146
LCS 500-303916/2-A	Lab Control Sample	Total/NA	Solid	6020A	303916
LCS 500-303917/2-A	Lab Control Sample	Total/NA	Solid	6020A	303917
LCS 500-304045/3-A	Lab Control Sample	Total/NA	Solid	6020A	304045
LCS 500-304146/3-A	Lab Control Sample	Total/NA	Solid	6020A	304146

### Prep Batch: 304413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-31	2618-7-B103 (0-2)	TCLP	Solid	7470A	304205
500-100833-32	2618-7-B104 (0-2)	TCLP	Solid	7470A	304205
500-100833-32 DU	2618-7-B104 (0-2)	TCLP	Solid	7470A	304205
500-100833-32 MS	2618-7-B104 (0-2)	TCLP	Solid	7470A	304205
500-100833-33	2618-7-B105 (0-2)	TCLP	Solid	7470A	304205
500-100833-34	2618-7-B106 (0-2)	TCLP	Solid	7470A	304205
500-100833-35	2618-7-B107 (0-2)	TCLP	Solid	7470A	304198
500-100833-36	2618-7-B108 (0-2)	TCLP	Solid	7470A	304198
500-100833-37	2618-7-B109 (0-2)	TCLP	Solid	7470A	304205
500-100833-38	2618-7-B110 (0-2)	TCLP	Solid	7470A	304205
500-100833-39	2618-7-B110 DUP (0-2)	TCLP	Solid	7470A	304205
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	7470A	304198
LB 500-304198/1-D	Method Blank	TCLP	Solid	7470A	304198
LB2 500-304205/1-B	Method Blank	TCLP	Solid	7470A	304205
LCS 500-304413/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304413/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 304419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-31	2618-7-B103 (0-2)	TCLP	Solid	3010A	304205

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## Metals (Continued)

### Prep Batch: 304419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-31 DU	2618-7-B103 (0-2)	TCLP	Solid	3010A	304205
500-100833-31 MS	2618-7-B103 (0-2)	TCLP	Solid	3010A	304205
500-100833-32	2618-7-B104 (0-2)	TCLP	Solid	3010A	304205
500-100833-33	2618-7-B105 (0-2)	TCLP	Solid	3010A	304205
500-100833-34	2618-7-B106 (0-2)	TCLP	Solid	3010A	304205
500-100833-35	2618-7-B107 (0-2)	TCLP	Solid	3010A	304198
500-100833-36	2618-7-B108 (0-2)	TCLP	Solid	3010A	304198
500-100833-37	2618-7-B109 (0-2)	TCLP	Solid	3010A	304205
500-100833-38	2618-7-B110 (0-2)	TCLP	Solid	3010A	304205
500-100833-39	2618-7-B110 DUP (0-2)	TCLP	Solid	3010A	304205
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	3010A	304198
LB 500-304198/1-E	Method Blank	TCLP	Solid	3010A	304198
LB2 500-304205/1-C	Method Blank	TCLP	Solid	3010A	304205
LCS 500-304419/3-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	TCLP	Solid	6010B	304045
500-100833-1 DU	2618-7-B45 (0-6)	TCLP	Solid	6010B	304045
500-100833-1 MS	2618-7-B45 (0-6)	TCLP	Solid	6010B	304045
500-100833-2	2618-7-B45 (6-13)	TCLP	Solid	6010B	304045
500-100833-3	2618-7-B46 (0-2)	TCLP	Solid	6010B	304045
500-100833-5	2618-7-B48 (0-2)	TCLP	Solid	6010B	304045
500-100833-13	2618-7-B55 (0-2)	TCLP	Solid	6010B	304045
500-100833-15	2618-7-B88 (0-2)	TCLP	Solid	6010B	304045
500-100833-17	2618-7-B90 (0-2)	TCLP	Solid	6010B	304045
500-100833-18	2618-7-B91 (0-2)	TCLP	Solid	6010B	304045
500-100833-20	2618-7-B93 (0-2)	TCLP	Solid	6010B	304045

### Analysis Batch: 304528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-31	2618-7-B103 (0-2)	TCLP	Solid	6020A	304419
500-100833-31 DU	2618-7-B103 (0-2)	TCLP	Solid	6020A	304419
500-100833-31 MS	2618-7-B103 (0-2)	TCLP	Solid	6020A	304419
500-100833-32	2618-7-B104 (0-2)	TCLP	Solid	6020A	304419
500-100833-33	2618-7-B105 (0-2)	TCLP	Solid	6020A	304419
500-100833-34	2618-7-B106 (0-2)	TCLP	Solid	6020A	304419
500-100833-35	2618-7-B107 (0-2)	TCLP	Solid	6020A	304419
500-100833-36	2618-7-B108 (0-2)	TCLP	Solid	6020A	304419
500-100833-37	2618-7-B109 (0-2)	TCLP	Solid	6020A	304419
500-100833-38	2618-7-B110 (0-2)	TCLP	Solid	6020A	304419
500-100833-39	2618-7-B110 DUP (0-2)	TCLP	Solid	6020A	304419
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	6020A	304419
LB 500-304198/1-E	Method Blank	TCLP	Solid	6020A	304419
LB2 500-304205/1-C	Method Blank	TCLP	Solid	6020A	304419
LCS 500-304419/3-A	Lab Control Sample	Total/NA	Solid	6020A	304419

### Analysis Batch: 304547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-31	2618-7-B103 (0-2)	TCLP	Solid	7470A	304413
500-100833-32	2618-7-B104 (0-2)	TCLP	Solid	7470A	304413

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## Metals (Continued)

### Analysis Batch: 304547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-32 DU	2618-7-B104 (0-2)	TCLP	Solid	7470A	304413
500-100833-32 MS	2618-7-B104 (0-2)	TCLP	Solid	7470A	304413
500-100833-33	2618-7-B105 (0-2)	TCLP	Solid	7470A	304413
500-100833-34	2618-7-B106 (0-2)	TCLP	Solid	7470A	304413
500-100833-35	2618-7-B107 (0-2)	TCLP	Solid	7470A	304413
500-100833-36	2618-7-B108 (0-2)	TCLP	Solid	7470A	304413
500-100833-37	2618-7-B109 (0-2)	TCLP	Solid	7470A	304413
500-100833-38	2618-7-B110 (0-2)	TCLP	Solid	7470A	304413
500-100833-39	2618-7-B110 DUP (0-2)	TCLP	Solid	7470A	304413
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	7470A	304413
LB 500-304198/1-D	Method Blank	TCLP	Solid	7470A	304413
LB2 500-304205/1-B	Method Blank	TCLP	Solid	7470A	304413
LCS 500-304413/13-A	Lab Control Sample	Total/NA	Solid	7470A	304413
MB 500-304413/12-A	Method Blank	Total/NA	Solid	7470A	304413

### Analysis Batch: 304563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-31	2618-7-B103 (0-2)	TCLP	Solid	6010B	304419
500-100833-31	2618-7-B103 (0-2)	TCLP	Solid	6010B	304419
500-100833-31 DU	2618-7-B103 (0-2)	TCLP	Solid	6010B	304419
500-100833-31 DU	2618-7-B103 (0-2)	TCLP	Solid	6010B	304419
500-100833-31 MS	2618-7-B103 (0-2)	TCLP	Solid	6010B	304419
500-100833-31 MS	2618-7-B103 (0-2)	TCLP	Solid	6010B	304419
500-100833-32	2618-7-B104 (0-2)	TCLP	Solid	6010B	304419
500-100833-32	2618-7-B104 (0-2)	TCLP	Solid	6010B	304419
500-100833-33	2618-7-B105 (0-2)	TCLP	Solid	6010B	304419
500-100833-33	2618-7-B105 (0-2)	TCLP	Solid	6010B	304419
500-100833-34	2618-7-B106 (0-2)	TCLP	Solid	6010B	304419
500-100833-34	2618-7-B106 (0-2)	TCLP	Solid	6010B	304419
500-100833-35	2618-7-B107 (0-2)	TCLP	Solid	6010B	304419
500-100833-36	2618-7-B108 (0-2)	TCLP	Solid	6010B	304419
500-100833-37	2618-7-B109 (0-2)	TCLP	Solid	6010B	304419
500-100833-37	2618-7-B109 (0-2)	TCLP	Solid	6010B	304419
500-100833-38	2618-7-B110 (0-2)	TCLP	Solid	6010B	304419
500-100833-38	2618-7-B110 (0-2)	TCLP	Solid	6010B	304419
500-100833-39	2618-7-B110 DUP (0-2)	TCLP	Solid	6010B	304419
500-100833-39	2618-7-B110 DUP (0-2)	TCLP	Solid	6010B	304419
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	6010B	304419
LB 500-304198/1-E	Method Blank	TCLP	Solid	6010B	304419
LB2 500-304205/1-C	Method Blank	TCLP	Solid	6010B	304419
LCS 500-304419/3-A	Lab Control Sample	Total/NA	Solid	6010B	304419

### Leach Batch: 304652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	1311	
500-100833-40 DU	2618-7-B111 (0-2)	TCLP	Solid	1311	
500-100833-40 MS	2618-7-B111 (0-2)	TCLP	Solid	1311	
LB 500-304652/1-B	Method Blank	TCLP	Solid	1311	

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## Metals (Continued)

### Prep Batch: 304680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	3010A	304652
500-100833-40 DU	2618-7-B111 (0-2)	TCLP	Solid	3010A	304652
500-100833-40 MS	2618-7-B111 (0-2)	TCLP	Solid	3010A	304652
LB 500-304652/1-B	Method Blank	TCLP	Solid	3010A	304652
LCS 500-304680/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-40	2618-7-B111 (0-2)	TCLP	Solid	6010B	304680
500-100833-40 DU	2618-7-B111 (0-2)	TCLP	Solid	6010B	304680
500-100833-40 MS	2618-7-B111 (0-2)	TCLP	Solid	6010B	304680
LB 500-304652/1-B	Method Blank	TCLP	Solid	6010B	304680
LCS 500-304680/2-A	Lab Control Sample	Total/NA	Solid	6010B	304680

## General Chemistry

### Analysis Batch: 303186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	Moisture	
500-100833-1 DU	2618-7-B45 (0-6)	Total/NA	Solid	Moisture	
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	Moisture	
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	Moisture	
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	Moisture	
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	Moisture	
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	Moisture	
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	Moisture	
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	Moisture	
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	Moisture	
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	Moisture	
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	Moisture	
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	Moisture	
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	Moisture	
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	Moisture	
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	Moisture	
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	Moisture	
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	Moisture	
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	Moisture	
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	Moisture	
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	Moisture	

### Analysis Batch: 303190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	Moisture	
500-100833-21 DU	2618-7-B94 (0-2)	Total/NA	Solid	Moisture	
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	Moisture	
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	Moisture	
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	Moisture	
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	Moisture	
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	Moisture	
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	Moisture	

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## General Chemistry (Continued)

### Analysis Batch: 303190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	Moisture	
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	Moisture	
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	Moisture	
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	Moisture	
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	Moisture	
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	Moisture	
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	Moisture	
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	Moisture	
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	Moisture	
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	Moisture	
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	Moisture	
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	Moisture	
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	Moisture	

### Prep Batch: 303611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	9010B	
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	9010B	
LCS 500-303611/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-303611/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 303634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	9014	303611
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	9014	303611
LCS 500-303611/2-A	Lab Control Sample	Total/NA	Solid	9014	303611
MB 500-303611/1-A	Method Blank	Total/NA	Solid	9014	303611

### Prep Batch: 303710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	9010B	
500-100833-3 MS	2618-7-B46 (0-2)	Total/NA	Solid	9010B	
500-100833-3 MSD	2618-7-B46 (0-2)	Total/NA	Solid	9010B	
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	9010B	
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	9010B	
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	9010B	
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	9010B	
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	9010B	
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	9010B	
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	9010B	
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	9010B	
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	9010B	
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	9010B	
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	9010B	
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	9010B	
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	9010B	
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	9010B	
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	9010B	
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	9010B	
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	9010B	
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	9010B	

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## General Chemistry (Continued)

### Prep Batch: 303710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	9010B	
LCS 500-303710/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-303710/1-A	Method Blank	Total/NA	Solid	9010B	

### Prep Batch: 303720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	9010B	
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	9010B	
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	9010B	
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	9010B	
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	9010B	
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	9010B	
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	9010B	
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	9010B	
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	9010B	
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	9010B	
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	9010B	
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	9010B	
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	9010B	
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	9010B	
500-100833-36 MS	2618-7-B108 (0-2)	Total/NA	Solid	9010B	
500-100833-36 MSD	2618-7-B108 (0-2)	Total/NA	Solid	9010B	
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	9010B	
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	9010B	
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	9010B	
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	9010B	
LCS 500-303720/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-303720/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 303799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	9014	303710
500-100833-3 MS	2618-7-B46 (0-2)	Total/NA	Solid	9014	303710
500-100833-3 MSD	2618-7-B46 (0-2)	Total/NA	Solid	9014	303710
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	9014	303710
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	9014	303710
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	9014	303710
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	9014	303710
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	9014	303710
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	9014	303710
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	9014	303710
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	9014	303710
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	9014	303710
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	9014	303710
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	9014	303710
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	9014	303710
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	9014	303710
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	9014	303710
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	9014	303710
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	9014	303710
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	9014	303710

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## General Chemistry (Continued)

### Analysis Batch: 303799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	9014	303710
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	9014	303710
LCS 500-303710/2-A	Lab Control Sample	Total/NA	Solid	9014	303710
MB 500-303710/1-A	Method Blank	Total/NA	Solid	9014	303710

### Analysis Batch: 303803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	9014	303720
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	9014	303720
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	9014	303720
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	9014	303720
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	9014	303720
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	9014	303720
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	9014	303720
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	9014	303720
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	9014	303720
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	9014	303720
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	9014	303720
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	9014	303720
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	9014	303720
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	9014	303720
500-100833-36 MS	2618-7-B108 (0-2)	Total/NA	Solid	9014	303720
500-100833-36 MSD	2618-7-B108 (0-2)	Total/NA	Solid	9014	303720
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	9014	303720
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	9014	303720
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	9014	303720
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	9014	303720
LCS 500-303720/2-A	Lab Control Sample	Total/NA	Solid	9014	303720
MB 500-303720/1-A	Method Blank	Total/NA	Solid	9014	303720

### Analysis Batch: 303885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-1	2618-7-B45 (0-6)	Total/NA	Solid	9045D	
500-100833-2	2618-7-B45 (6-13)	Total/NA	Solid	9045D	
500-100833-3	2618-7-B46 (0-2)	Total/NA	Solid	9045D	
500-100833-4	2618-7-B47 (0-2)	Total/NA	Solid	9045D	
500-100833-5	2618-7-B48 (0-2)	Total/NA	Solid	9045D	
500-100833-6	2618-7-B49 (0-2)	Total/NA	Solid	9045D	
500-100833-7	2618-7-B50 (0-2)	Total/NA	Solid	9045D	
500-100833-8	2618-7-B50 DUP (0-2)	Total/NA	Solid	9045D	
500-100833-9	2618-7-B51 (0-2)	Total/NA	Solid	9045D	
500-100833-10	2618-7-B52 (0-2)	Total/NA	Solid	9045D	
500-100833-11	2618-7-B53 (0-2)	Total/NA	Solid	9045D	
500-100833-12	2618-7-B54 (0-2)	Total/NA	Solid	9045D	
500-100833-13	2618-7-B55 (0-2)	Total/NA	Solid	9045D	
500-100833-14	2618-7-B56 (0-2)	Total/NA	Solid	9045D	
500-100833-15	2618-7-B88 (0-2)	Total/NA	Solid	9045D	
500-100833-16	2618-7-B89 (0-2)	Total/NA	Solid	9045D	
500-100833-16 DU	2618-7-B89 (0-2)	Total/NA	Solid	9045D	
500-100833-17	2618-7-B90 (0-2)	Total/NA	Solid	9045D	
500-100833-18	2618-7-B91 (0-2)	Total/NA	Solid	9045D	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## General Chemistry (Continued)

### Analysis Batch: 303885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100833-19	2618-7-B92 (0-2)	Total/NA	Solid	9045D	
500-100833-20	2618-7-B93 (0-2)	Total/NA	Solid	9045D	
500-100833-21	2618-7-B94 (0-2)	Total/NA	Solid	9045D	
500-100833-22	2618-7-B95 (0-2)	Total/NA	Solid	9045D	
500-100833-23	2618-7-B95 DUP (0-2)	Total/NA	Solid	9045D	
500-100833-24	2618-7-B96 (0-2)	Total/NA	Solid	9045D	
500-100833-25	2618-7-B97 (0-2)	Total/NA	Solid	9045D	
500-100833-26	2618-7-B98 (0-2)	Total/NA	Solid	9045D	
500-100833-26 DU	2618-7-B98 (0-2)	Total/NA	Solid	9045D	
500-100833-27	2618-7-B99 (0-2)	Total/NA	Solid	9045D	
500-100833-28	2618-7-B100 (0-2)	Total/NA	Solid	9045D	
500-100833-29	2618-7-B101 (0-2)	Total/NA	Solid	9045D	
500-100833-30	2618-7-B102 (0-2)	Total/NA	Solid	9045D	
500-100833-31	2618-7-B103 (0-2)	Total/NA	Solid	9045D	
500-100833-32	2618-7-B104 (0-2)	Total/NA	Solid	9045D	
500-100833-33	2618-7-B105 (0-2)	Total/NA	Solid	9045D	
500-100833-34	2618-7-B106 (0-2)	Total/NA	Solid	9045D	
500-100833-35	2618-7-B107 (0-2)	Total/NA	Solid	9045D	
500-100833-36	2618-7-B108 (0-2)	Total/NA	Solid	9045D	
500-100833-37	2618-7-B109 (0-2)	Total/NA	Solid	9045D	
500-100833-38	2618-7-B110 (0-2)	Total/NA	Solid	9045D	
500-100833-39	2618-7-B110 DUP (0-2)	Total/NA	Solid	9045D	
500-100833-40	2618-7-B111 (0-2)	Total/NA	Solid	9045D	

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

**Matrix: Solid**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-100833-1	2618-7-B45 (0-6)	104	102	121	110
500-100833-2	2618-7-B45 (6-13)	102	102	118	113
500-100833-3	2618-7-B46 (0-2)	103	101	120	113
500-100833-4	2618-7-B47 (0-2)	103	104	125	112
500-100833-5	2618-7-B48 (0-2)	106	96	117	116
500-100833-6	2618-7-B49 (0-2)	106	97	119	113
500-100833-7	2618-7-B50 (0-2)	107	100	122	117
500-100833-8	2618-7-B50 DUP (0-2)	104	103	121	114
500-100833-9	2618-7-B51 (0-2)	103	103	117	111
500-100833-10	2618-7-B52 (0-2)	107	106	124	117
500-100833-11	2618-7-B53 (0-2)	102	100	120	118
500-100833-12	2618-7-B54 (0-2)	106	102	118	114
500-100833-13	2618-7-B55 (0-2)	104	100	120	113
500-100833-14	2618-7-B56 (0-2)	105	109	124	112
500-100833-15	2618-7-B88 (0-2)	105	102	118	111
500-100833-16	2618-7-B89 (0-2)	102	102	121	112
500-100833-17	2618-7-B90 (0-2)	102	103	123	112
500-100833-18	2618-7-B91 (0-2)	102	101	115	113
500-100833-19	2618-7-B92 (0-2)	101	102	117	115
500-100833-20	2618-7-B93 (0-2)	98	108	115	113
500-100833-21	2618-7-B94 (0-2)	109	103	120	119
500-100833-22	2618-7-B95 (0-2)	103	105	124	117
500-100833-23	2618-7-B95 DUP (0-2)	105	104	121	115
500-100833-24	2618-7-B96 (0-2)	101	102	118	113
500-100833-25	2618-7-B97 (0-2)	108	105	118	115
500-100833-26	2618-7-B98 (0-2)	105	103	121	110
500-100833-27	2618-7-B99 (0-2)	102	101	123	111
500-100833-28	2618-7-B100 (0-2)	106	103	119	116
500-100833-29	2618-7-B101 (0-2)	106	104	124	115
500-100833-30	2618-7-B102 (0-2)	104	105	123	112
500-100833-31	2618-7-B103 (0-2)	106	100	118	115
500-100833-32	2618-7-B104 (0-2)	102	105	117	112
500-100833-33	2618-7-B105 (0-2)	107	103	121	115
500-100833-34	2618-7-B106 (0-2)	103	105	124	115
500-100833-35	2618-7-B107 (0-2)	102	100	119	112
500-100833-36	2618-7-B108 (0-2)	104	98	121	114
500-100833-37	2618-7-B109 (0-2)	99	102	123	111
500-100833-38	2618-7-B110 (0-2)	104	102	116	115
500-100833-39	2618-7-B110 DUP (0-2)	98	106	123	113
500-100833-40	2618-7-B111 (0-2)	103	101	121	114
LCS 500-303390/4	Lab Control Sample	111	97	109	120
LCS 500-303466/4	Lab Control Sample	115	100	112	120
LCS 500-303640/31	Lab Control Sample	111	97	110	118
LCSD 500-303390/5	Lab Control Sample Dup	110	100	114	117
LCSD 500-303466/5	Lab Control Sample Dup	111	100	109	118
LCSD 500-303640/6	Lab Control Sample Dup	111	98	109	118
MB 500-303390/6	Method Blank	106	99	113	118
MB 500-303466/6	Method Blank	104	103	118	114
MB 500-303640/7	Method Blank	107	100	115	115

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# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

### Surrogate Legend

FBF = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane  
 12DCE = 1,2-Dichloroethane-d4 (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBF (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
500-100833-1	2618-7-B45 (0-6)	75	81	79	77	79	68
500-100833-1 MS	2618-7-B45 (0-6)	84	88	82	85	80	82
500-100833-1 MSD	2618-7-B45 (0-6)	74	81	77	74	73	72
500-100833-2	2618-7-B45 (6-13)	83	85	74	81	82	35
500-100833-3	2618-7-B46 (0-2)	81	82	72	79	79	75
500-100833-4	2618-7-B47 (0-2)	80	82	72	80	80	32 X
500-100833-5	2618-7-B48 (0-2)	79	89	81	81	82	74
500-100833-6	2618-7-B49 (0-2)	82	83	73	83	123	77
500-100833-7	2618-7-B50 (0-2)	73	77	66	75	132	64
500-100833-8	2618-7-B50 DUP (0-2)	81	85	72	82	99	68
500-100833-9	2618-7-B51 (0-2)	71	77	62	76	92	65
500-100833-10	2618-7-B52 (0-2)	72	86	71	85	82	79
500-100833-11	2618-7-B53 (0-2)	99	94	81	101	201 X	93
500-100833-12	2618-7-B54 (0-2)	70	74	63	75	125	72
500-100833-13	2618-7-B55 (0-2)	66	75	64	72	80	76
500-100833-14	2618-7-B56 (0-2)	74	79	67	77	80	73
500-100833-15	2618-7-B88 (0-2)	77	83	71	82	102	79
500-100833-16	2618-7-B89 (0-2)	73	78	76	80	84	83
500-100833-17	2618-7-B90 (0-2)	71	78	73	76	83	76
500-100833-18	2618-7-B91 (0-2)	54	70	59	66	83	69
500-100833-19	2618-7-B92 (0-2)	72	84	71	82	80	67
500-100833-20	2618-7-B93 (0-2)	73	78	65	77	78	67
500-100833-21	2618-7-B94 (0-2)	87	84	103	88	100	97
500-100833-21 MS	2618-7-B94 (0-2)	85	70	88	72	98	97
500-100833-21 MSD	2618-7-B94 (0-2)	81	67	75	69	114	94
500-100833-22	2618-7-B95 (0-2)	78	77	85	73	106	76
500-100833-23	2618-7-B95 DUP (0-2)	92	78	96	79	100	96
500-100833-24	2618-7-B96 (0-2)	86	77	95	77	88	76
500-100833-25	2618-7-B97 (0-2)	79	80	84	75	87	97
500-100833-26	2618-7-B98 (0-2)	83	77	89	69	97	91
500-100833-27	2618-7-B99 (0-2)	93	85	95	80	108	113
500-100833-28	2618-7-B100 (0-2)	83	88	75	85	135 X	76
500-100833-29	2618-7-B101 (0-2)	68	66	76	62	88	61
500-100833-30	2618-7-B102 (0-2)	83	76	89	71	94	92
500-100833-31	2618-7-B103 (0-2)	76	76	88	68	90	85
500-100833-32	2618-7-B104 (0-2)	81	69	84	76	94	81
500-100833-33	2618-7-B105 (0-2)	72	72	82	79	117	72
500-100833-34	2618-7-B106 (0-2)	83	86	78	87	163 X	65
500-100833-35	2618-7-B107 (0-2)	83	76	90	71	123	87
500-100833-36	2618-7-B108 (0-2)	90	77	129 X	70	98	101
500-100833-37	2618-7-B109 (0-2)	101	93	87	91	255 X	78
500-100833-38	2618-7-B110 (0-2)	89	95	82	89	82	77

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# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
500-100833-39	2618-7-B110 DUP (0-2)	80	90	80	83	78	76
500-100833-40	2618-7-B111 (0-2)	77	84	84	78	81	66
LCS 500-303467/2-A	Lab Control Sample	84	85	97	84	95	96
LCS 500-303468/2-A	Lab Control Sample	78	87	80	80	81	83
LCS 500-303651/2-A	Lab Control Sample	81	87	85	80	80	80
MB 500-303467/1-A	Method Blank	92	87	97	85	98	98
MB 500-303468/1-A	Method Blank	79	84	79	82	84	72
MB 500-303651/1-A	Method Blank	82	91	84	85	86	80

### Surrogate Legend

FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol  
 NBZ = Nitrobenzene-d5  
 PHL = Phenol-d5  
 TPH = Terphenyl-d14  
 TBP = 2,4,6-Tribromophenol

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-303390/6**

**Matrix: Solid**

**Analysis Batch: 303390**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/09/15 02:16	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 02:16	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/09/15 02:16	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 02:16	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 02:16	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 02:16	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 02:16	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 02:16	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 02:16	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/09/15 02:16	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/09/15 02:16	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 02:16	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 02:16	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 02:16	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/09/15 02:16	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 02:16	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/09/15 02:16	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 02:16	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 02:16	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 02:16	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 02:16	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/09/15 02:16	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/09/15 02:16	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 02:16	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 02:16	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 02:16	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/09/15 02:16	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 02:16	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/09/15 02:16	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 02:16	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 02:16	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 02:16	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/09/15 02:16	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 02:16	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 02:16	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 02:16	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/09/15 02:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		09/09/15 02:16	1
Dibromofluoromethane	99		75 - 120		09/09/15 02:16	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134		09/09/15 02:16	1
Toluene-d8 (Surr)	118		75 - 122		09/09/15 02:16	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303390/4**

**Matrix: Solid**

**Analysis Batch: 303390**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0461		mg/Kg		92	50 - 133
Benzene	0.0500	0.0471		mg/Kg		94	70 - 120
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	69 - 120
Bromoform	0.0500	0.0376		mg/Kg		75	51 - 127
Bromomethane	0.0500	0.0387		mg/Kg		77	69 - 120
2-Butanone (MEK)	0.0500	0.0405		mg/Kg		81	50 - 148
Carbon disulfide	0.0500	0.0462		mg/Kg		92	58 - 120
Carbon tetrachloride	0.0500	0.0429		mg/Kg		86	51 - 124
Chlorobenzene	0.0500	0.0490		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0619		mg/Kg		124	49 - 125
Chloroform	0.0500	0.0478		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0393		mg/Kg		79	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 120
Dibromochloromethane	0.0500	0.0448		mg/Kg		90	69 - 126
1,1-Dichloroethane	0.0500	0.0552		mg/Kg		110	70 - 120
1,2-Dichloroethane	0.0500	0.0538		mg/Kg		108	70 - 128
1,1-Dichloroethene	0.0500	0.0469		mg/Kg		94	67 - 120
1,2-Dichloropropane	0.0500	0.0537		mg/Kg		107	70 - 120
Ethylbenzene	0.0500	0.0477		mg/Kg		95	70 - 120
2-Hexanone	0.0500	0.0434		mg/Kg		87	50 - 150
Methylene Chloride	0.0500	0.0515		mg/Kg		103	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0424		mg/Kg		85	50 - 150
Methyl tert-butyl ether	0.0500	0.0476		mg/Kg		95	70 - 120
Styrene	0.0500	0.0478		mg/Kg		96	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0544		mg/Kg		109	70 - 133
Tetrachloroethene	0.0500	0.0430		mg/Kg		86	70 - 120
Toluene	0.0500	0.0500		mg/Kg		100	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0466		mg/Kg		93	70 - 120
1,1,1-Trichloroethane	0.0500	0.0462		mg/Kg		92	70 - 120
1,1,2-Trichloroethane	0.0500	0.0514		mg/Kg		103	70 - 120
Trichloroethene	0.0500	0.0448		mg/Kg		90	70 - 120
Vinyl acetate	0.0500	0.0425		mg/Kg		85	60 - 150
Vinyl chloride	0.0500	0.0465		mg/Kg		93	69 - 120
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 122
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	109		70 - 134
Toluene-d8 (Surr)	120		75 - 122

**Lab Sample ID: LCSD 500-303390/5**

**Matrix: Solid**

**Analysis Batch: 303390**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0457		mg/Kg		91	50 - 133	1	30
Benzene	0.0500	0.0470		mg/Kg		94	70 - 120	0	30

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-303390/5**  
**Matrix: Solid**  
**Analysis Batch: 303390**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0440		mg/Kg		88	69 - 120	3	30
Bromoform	0.0500	0.0371		mg/Kg		74	51 - 127	1	30
Bromomethane	0.0500	0.0388		mg/Kg		78	69 - 120	0	30
2-Butanone (MEK)	0.0500	0.0404		mg/Kg		81	50 - 148	0	30
Carbon disulfide	0.0500	0.0467		mg/Kg		93	58 - 120	1	30
Carbon tetrachloride	0.0500	0.0428		mg/Kg		86	51 - 124	0	30
Chlorobenzene	0.0500	0.0469		mg/Kg		94	70 - 120	4	30
Chloroethane	0.0500	0.0548		mg/Kg		110	49 - 125	12	30
Chloroform	0.0500	0.0473		mg/Kg		95	70 - 120	1	30
Chloromethane	0.0500	0.0387		mg/Kg		77	63 - 126	1	30
cis-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 120	2	30
Dibromochloromethane	0.0500	0.0452		mg/Kg		90	69 - 126	1	30
1,1-Dichloroethane	0.0500	0.0543		mg/Kg		109	70 - 120	2	30
1,2-Dichloroethane	0.0500	0.0546		mg/Kg		109	70 - 128	1	30
1,1-Dichloroethene	0.0500	0.0466		mg/Kg		93	67 - 120	1	30
1,2-Dichloropropane	0.0500	0.0530		mg/Kg		106	70 - 120	1	30
Ethylbenzene	0.0500	0.0468		mg/Kg		94	70 - 120	2	30
2-Hexanone	0.0500	0.0446		mg/Kg		89	50 - 150	3	30
Methylene Chloride	0.0500	0.0515		mg/Kg		103	70 - 120	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0436		mg/Kg		87	50 - 150	3	30
Methyl tert-butyl ether	0.0500	0.0494		mg/Kg		99	70 - 120	4	30
Styrene	0.0500	0.0461		mg/Kg		92	70 - 120	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0561		mg/Kg		112	70 - 133	3	30
Tetrachloroethene	0.0500	0.0420		mg/Kg		84	70 - 120	2	30
Toluene	0.0500	0.0495		mg/Kg		99	70 - 120	1	30
trans-1,2-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 120	2	30
1,1,1-Trichloroethane	0.0500	0.0458		mg/Kg		92	70 - 120	1	30
1,1,2-Trichloroethane	0.0500	0.0479		mg/Kg		96	70 - 120	7	30
Trichloroethene	0.0500	0.0450		mg/Kg		90	70 - 120	1	30
Vinyl acetate	0.0500	0.0384		mg/Kg		77	60 - 150	10	30
Vinyl chloride	0.0500	0.0461		mg/Kg		92	69 - 120	1	30
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	110		70 - 122
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	114		70 - 134
Toluene-d8 (Surr)	117		75 - 122

**Lab Sample ID: MB 500-303466/6**  
**Matrix: Solid**  
**Analysis Batch: 303466**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/09/15 14:37	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 14:37	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/09/15 14:37	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 14:37	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303466/6**  
**Matrix: Solid**  
**Analysis Batch: 303466**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 14:37	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 14:37	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 14:37	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 14:37	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 14:37	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/09/15 14:37	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/09/15 14:37	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 14:37	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 14:37	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/09/15 14:37	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/09/15 14:37	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 14:37	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/09/15 14:37	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/09/15 14:37	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 14:37	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 14:37	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 14:37	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/09/15 14:37	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/09/15 14:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 14:37	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 14:37	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 14:37	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/09/15 14:37	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/09/15 14:37	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/09/15 14:37	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 14:37	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 14:37	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 14:37	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/09/15 14:37	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/09/15 14:37	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/09/15 14:37	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/09/15 14:37	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/09/15 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		09/09/15 14:37	1
Dibromofluoromethane	103		75 - 120		09/09/15 14:37	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134		09/09/15 14:37	1
Toluene-d8 (Surr)	114		75 - 122		09/09/15 14:37	1

**Lab Sample ID: LCS 500-303466/4**  
**Matrix: Solid**  
**Analysis Batch: 303466**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0509		mg/Kg		102	50 - 133
Benzene	0.0500	0.0464		mg/Kg		93	70 - 120
Bromodichloromethane	0.0500	0.0433		mg/Kg		87	69 - 120

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303466/4**

**Matrix: Solid**

**Analysis Batch: 303466**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0384		mg/Kg		77	51 - 127
Bromomethane	0.0500	0.0378		mg/Kg		76	69 - 120
2-Butanone (MEK)	0.0500	0.0448		mg/Kg		90	50 - 148
Carbon disulfide	0.0500	0.0447		mg/Kg		89	58 - 120
Carbon tetrachloride	0.0500	0.0424		mg/Kg		85	51 - 124
Chlorobenzene	0.0500	0.0486		mg/Kg		97	70 - 120
Chloroethane	0.0500	0.0460		mg/Kg		92	49 - 125
Chloroform	0.0500	0.0467		mg/Kg		93	70 - 120
Chloromethane	0.0500	0.0406		mg/Kg		81	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 120
Dibromochloromethane	0.0500	0.0444		mg/Kg		89	69 - 126
1,1-Dichloroethane	0.0500	0.0545		mg/Kg		109	70 - 120
1,2-Dichloroethane	0.0500	0.0538		mg/Kg		108	70 - 128
1,1-Dichloroethene	0.0500	0.0474		mg/Kg		95	67 - 120
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 120
Ethylbenzene	0.0500	0.0494		mg/Kg		99	70 - 120
2-Hexanone	0.0500	0.0453		mg/Kg		91	50 - 150
Methylene Chloride	0.0500	0.0481		mg/Kg		96	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0459		mg/Kg		92	50 - 150
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	70 - 120
Styrene	0.0500	0.0461		mg/Kg		92	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0538		mg/Kg		108	70 - 133
Tetrachloroethene	0.0500	0.0471		mg/Kg		94	70 - 120
Toluene	0.0500	0.0497		mg/Kg		99	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 120
1,1,1-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 120
1,1,2-Trichloroethane	0.0500	0.0507		mg/Kg		101	70 - 120
Trichloroethene	0.0500	0.0460		mg/Kg		92	70 - 120
Vinyl acetate	0.0500	0.0577		mg/Kg		115	60 - 150
Vinyl chloride	0.0500	0.0513		mg/Kg		103	69 - 120
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 122
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	112		70 - 134
Toluene-d8 (Surr)	120		75 - 122

**Lab Sample ID: LCSD 500-303466/5**

**Matrix: Solid**

**Analysis Batch: 303466**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0521		mg/Kg		104	50 - 133	2	30
Benzene	0.0500	0.0472		mg/Kg		94	70 - 120	2	30
Bromodichloromethane	0.0500	0.0448		mg/Kg		90	69 - 120	3	30
Bromoform	0.0500	0.0373		mg/Kg		75	51 - 127	3	30
Bromomethane	0.0500	0.0405		mg/Kg		81	69 - 120	7	30

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-303466/5**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Solid**

**Prep Type: Total/NA**

**Analysis Batch: 303466**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0443		mg/Kg		89	50 - 148	1	30
Carbon disulfide	0.0500	0.0471		mg/Kg		94	58 - 120	5	30
Carbon tetrachloride	0.0500	0.0449		mg/Kg		90	51 - 124	6	30
Chlorobenzene	0.0500	0.0488		mg/Kg		98	70 - 120	0	30
Chloroethane	0.0500	0.0532		mg/Kg		106	49 - 125	14	30
Chloroform	0.0500	0.0488		mg/Kg		98	70 - 120	4	30
Chloromethane	0.0500	0.0435		mg/Kg		87	63 - 126	7	30
cis-1,2-Dichloroethene	0.0500	0.0503		mg/Kg		101	70 - 120	5	30
Dibromochloromethane	0.0500	0.0446		mg/Kg		89	69 - 126	0	30
1,1-Dichloroethane	0.0500	0.0561		mg/Kg		112	70 - 120	3	30
1,2-Dichloroethane	0.0500	0.0558		mg/Kg		112	70 - 128	4	30
1,1-Dichloroethene	0.0500	0.0479		mg/Kg		96	67 - 120	1	30
1,2-Dichloropropane	0.0500	0.0541		mg/Kg		108	70 - 120	4	30
Ethylbenzene	0.0500	0.0492		mg/Kg		98	70 - 120	0	30
2-Hexanone	0.0500	0.0467		mg/Kg		93	50 - 150	3	30
Methylene Chloride	0.0500	0.0507		mg/Kg		101	70 - 120	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0457		mg/Kg		91	50 - 150	0	30
Methyl tert-butyl ether	0.0500	0.0499		mg/Kg		100	70 - 120	5	30
Styrene	0.0500	0.0478		mg/Kg		96	70 - 120	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0553		mg/Kg		111	70 - 133	3	30
Tetrachloroethene	0.0500	0.0455		mg/Kg		91	70 - 120	3	30
Toluene	0.0500	0.0510		mg/Kg		102	70 - 120	3	30
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 120	2	30
1,1,1-Trichloroethane	0.0500	0.0486		mg/Kg		97	70 - 120	4	30
1,1,2-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 120	1	30
Trichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120	4	30
Vinyl acetate	0.0500	0.0524		mg/Kg		105	60 - 150	10	30
Vinyl chloride	0.0500	0.0532		mg/Kg		106	69 - 120	4	30
Xylenes, Total	0.100	0.104		mg/Kg		104	70 - 120	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	111		70 - 122
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	109		70 - 134
Toluene-d8 (Surr)	118		75 - 122

**Lab Sample ID: MB 500-303640/7**

**Client Sample ID: Method Blank**

**Matrix: Solid**

**Prep Type: Total/NA**

**Analysis Batch: 303640**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/10/15 10:33	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/10/15 10:33	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/10/15 10:33	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/10/15 10:33	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/10/15 10:33	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/10/15 10:33	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/10/15 10:33	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303640/7**  
**Matrix: Solid**  
**Analysis Batch: 303640**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/10/15 10:33	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/10/15 10:33	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/10/15 10:33	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/10/15 10:33	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/10/15 10:33	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/10/15 10:33	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/10/15 10:33	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/10/15 10:33	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/10/15 10:33	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/10/15 10:33	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/10/15 10:33	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/10/15 10:33	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/10/15 10:33	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/10/15 10:33	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/10/15 10:33	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/10/15 10:33	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/10/15 10:33	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/10/15 10:33	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/10/15 10:33	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/10/15 10:33	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/10/15 10:33	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/10/15 10:33	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/10/15 10:33	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/10/15 10:33	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/10/15 10:33	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/10/15 10:33	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/10/15 10:33	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/10/15 10:33	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/10/15 10:33	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/10/15 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		09/10/15 10:33	1
Dibromofluoromethane	100		75 - 120		09/10/15 10:33	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134		09/10/15 10:33	1
Toluene-d8 (Surr)	115		75 - 122		09/10/15 10:33	1

**Lab Sample ID: LCS 500-303640/31**  
**Matrix: Solid**  
**Analysis Batch: 303640**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0423		mg/Kg		85	50 - 133
Benzene	0.0500	0.0427		mg/Kg		85	70 - 120
Bromodichloromethane	0.0500	0.0386		mg/Kg		77	69 - 120
Bromoform	0.0500	0.0321		mg/Kg		64	51 - 127
Bromomethane	0.0500	0.0348		mg/Kg		70	69 - 120
2-Butanone (MEK)	0.0500	0.0363		mg/Kg		73	50 - 148

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303640/31**  
**Matrix: Solid**  
**Analysis Batch: 303640**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	0.0500	0.0421		mg/Kg		84	58 - 120
Carbon tetrachloride	0.0500	0.0415		mg/Kg		83	51 - 124
Chlorobenzene	0.0500	0.0443		mg/Kg		89	70 - 120
Chloroethane	0.0500	0.0528		mg/Kg		106	49 - 125
Chloroform	0.0500	0.0425		mg/Kg		85	70 - 120
Chloromethane	0.0500	0.0364		mg/Kg		73	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0429		mg/Kg		86	70 - 120
Dibromochloromethane	0.0500	0.0395		mg/Kg		79	69 - 126
1,1-Dichloroethane	0.0500	0.0499		mg/Kg		100	70 - 120
1,2-Dichloroethane	0.0500	0.0477		mg/Kg		95	70 - 128
1,1-Dichloroethene	0.0500	0.0452		mg/Kg		90	67 - 120
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	70 - 120
Ethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 120
2-Hexanone	0.0500	0.0422		mg/Kg		84	50 - 150
Methylene Chloride	0.0500	0.0429		mg/Kg		86	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0383		mg/Kg		77	50 - 150
Methyl tert-butyl ether	0.0500	0.0414		mg/Kg		83	70 - 120
Styrene	0.0500	0.0428		mg/Kg		86	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0489		mg/Kg		98	70 - 133
Tetrachloroethene	0.0500	0.0426		mg/Kg		85	70 - 120
Toluene	0.0500	0.0469		mg/Kg		94	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0417		mg/Kg		83	70 - 120
1,1,1-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 120
1,1,2-Trichloroethane	0.0500	0.0443		mg/Kg		89	70 - 120
Trichloroethene	0.0500	0.0432		mg/Kg		86	70 - 120
Vinyl acetate	0.0500	0.0529		mg/Kg		106	60 - 150
Vinyl chloride	0.0500	0.0453		mg/Kg		91	69 - 120
Xylenes, Total	0.100	0.0961		mg/Kg		96	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 122
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		70 - 134
Toluene-d8 (Surr)	118		75 - 122

**Lab Sample ID: LCSD 500-303640/6**  
**Matrix: Solid**  
**Analysis Batch: 303640**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0387		mg/Kg		77	50 - 133	9	30
Benzene	0.0500	0.0469		mg/Kg		94	70 - 120	9	30
Bromodichloromethane	0.0500	0.0434		mg/Kg		87	69 - 120	12	30
Bromoform	0.0500	0.0353		mg/Kg		71	51 - 127	9	30
Bromomethane	0.0500	0.0385		mg/Kg		77	69 - 120	10	30
2-Butanone (MEK)	0.0500	0.0344		mg/Kg		69	50 - 148	5	30
Carbon disulfide	0.0500	0.0453		mg/Kg		91	58 - 120	7	30
Carbon tetrachloride	0.0500	0.0444		mg/Kg		89	51 - 124	7	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-303640/6**  
**Matrix: Solid**  
**Analysis Batch: 303640**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120	12	30
Chloroethane	0.0500	0.0591		mg/Kg		118	49 - 125	11	30
Chloroform	0.0500	0.0472		mg/Kg		94	70 - 120	10	30
Chloromethane	0.0500	0.0404		mg/Kg		81	63 - 126	10	30
cis-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 120	12	30
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 126	13	30
1,1-Dichloroethane	0.0500	0.0551		mg/Kg		110	70 - 120	10	30
1,2-Dichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128	9	30
1,1-Dichloroethene	0.0500	0.0479		mg/Kg		96	67 - 120	6	30
1,2-Dichloropropane	0.0500	0.0545		mg/Kg		109	70 - 120	12	30
Ethylbenzene	0.0500	0.0508		mg/Kg		102	70 - 120	8	30
2-Hexanone	0.0500	0.0441		mg/Kg		88	50 - 150	4	30
Methylene Chloride	0.0500	0.0484		mg/Kg		97	70 - 120	12	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0402		mg/Kg		80	50 - 150	5	30
Methyl tert-butyl ether	0.0500	0.0459		mg/Kg		92	70 - 120	10	30
Styrene	0.0500	0.0480		mg/Kg		96	70 - 120	12	30
1,1,2,2-Tetrachloroethane	0.0500	0.0518		mg/Kg		104	70 - 133	6	30
Tetrachloroethene	0.0500	0.0462		mg/Kg		92	70 - 120	8	30
Toluene	0.0500	0.0524		mg/Kg		105	70 - 120	11	30
trans-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 120	7	30
1,1,1-Trichloroethane	0.0500	0.0473		mg/Kg		95	70 - 120	7	30
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 120	13	30
Trichloroethene	0.0500	0.0472		mg/Kg		94	70 - 120	9	30
Vinyl acetate	0.0500	0.0515		mg/Kg		103	60 - 150	3	30
Vinyl chloride	0.0500	0.0509		mg/Kg		102	69 - 120	12	30
Xylenes, Total	0.100	0.105		mg/Kg		105	70 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	111		70 - 122
Dibromofluoromethane	98		75 - 120
1,2-Dichloroethane-d4 (Surr)	109		70 - 134
Toluene-d8 (Surr)	118		75 - 122

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-303467/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/09/15 07:17	09/09/15 20:43	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303467/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303467/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/09/15 07:17	09/09/15 20:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/09/15 07:17	09/09/15 20:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	09/09/15 07:17	09/09/15 20:43	1
2-Fluorophenol	87		25 - 110	09/09/15 07:17	09/09/15 20:43	1
Nitrobenzene-d5	97		25 - 115	09/09/15 07:17	09/09/15 20:43	1
Phenol-d5	85		31 - 110	09/09/15 07:17	09/09/15 20:43	1
Terphenyl-d14	98		36 - 134	09/09/15 07:17	09/09/15 20:43	1
2,4,6-Tribromophenol	98		35 - 137	09/09/15 07:17	09/09/15 20:43	1

**Lab Sample ID: LCS 500-303467/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303573**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.15		mg/Kg		86	46 - 110
Acenaphthylene	1.33	1.17		mg/Kg		88	49 - 110
Anthracene	1.33	1.15		mg/Kg		87	48 - 118
Benzo[a]anthracene	1.33	1.25		mg/Kg		94	49 - 121
Benzo[a]pyrene	1.33	1.29		mg/Kg		97	53 - 122
Benzo[b]fluoranthene	1.33	1.31		mg/Kg		98	54 - 122
Benzo[g,h,i]perylene	1.33	1.35		mg/Kg		101	52 - 125
Benzo[k]fluoranthene	1.33	1.13		mg/Kg		85	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.18		mg/Kg		89	42 - 110
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.25		mg/Kg		94	47 - 133
4-Bromophenyl phenyl ether	1.33	1.21		mg/Kg		91	55 - 113
Butyl benzyl phthalate	1.33	1.29		mg/Kg		96	49 - 121
Carbazole	1.33	1.39		mg/Kg		104	26 - 188
4-Chloroaniline	1.33	1.08		mg/Kg		81	16 - 118
4-Chloro-3-methylphenol	1.33	1.25		mg/Kg		94	52 - 111
2-Chloronaphthalene	1.33	1.15		mg/Kg		86	52 - 114
2-Chlorophenol	1.33	1.21		mg/Kg		91	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.17		mg/Kg		87	53 - 117
Chrysene	1.33	1.22		mg/Kg		91	45 - 118
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	48 - 134
Dibenzofuran	1.33	1.13		mg/Kg		84	51 - 119
1,2-Dichlorobenzene	1.33	1.10		mg/Kg		82	48 - 110
1,3-Dichlorobenzene	1.33	1.11		mg/Kg		83	44 - 110
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		83	45 - 110
3,3'-Dichlorobenzidine	1.33	1.21		mg/Kg		90	26 - 128

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303467/2-A**

**Matrix: Solid**

**Analysis Batch: 303573**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	1.33	1.37		mg/Kg		102	53 - 113
Diethyl phthalate	1.33	1.21		mg/Kg		90	50 - 128
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	49 - 110
Dimethyl phthalate	1.33	1.19		mg/Kg		89	56 - 113
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	50 - 128
4,6-Dinitro-2-methylphenol	2.67	2.24		mg/Kg		84	10 - 110
2,4-Dinitrophenol	2.67	0.650	J	mg/Kg		24	10 - 110
2,4-Dinitrotoluene	1.33	1.21		mg/Kg		91	53 - 122
2,6-Dinitrotoluene	1.33	1.22		mg/Kg		92	54 - 117
Di-n-octyl phthalate	1.33	1.28		mg/Kg		96	46 - 138
Fluoranthene	1.33	1.22		mg/Kg		92	48 - 128
Fluorene	1.33	1.13		mg/Kg		85	47 - 121
Hexachlorobenzene	1.33	1.27		mg/Kg		95	54 - 114
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	47 - 114
Hexachlorocyclopentadiene	1.33	0.727		mg/Kg		55	10 - 110
Hexachloroethane	1.33	1.15		mg/Kg		87	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	49 - 132
Isophorone	1.33	1.19		mg/Kg		89	35 - 110
2-Methylnaphthalene	1.33	1.08		mg/Kg		81	48 - 110
2-Methylphenol	1.33	1.15		mg/Kg		86	44 - 110
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	37 - 122
Naphthalene	1.33	1.17		mg/Kg		88	48 - 110
2-Nitroaniline	1.33	1.30		mg/Kg		98	42 - 122
3-Nitroaniline	1.33	1.03		mg/Kg		77	36 - 131
4-Nitroaniline	1.33	1.53		mg/Kg		115	28 - 157
Nitrobenzene	1.33	1.31		mg/Kg		98	35 - 113
2-Nitrophenol	1.33	1.30		mg/Kg		98	48 - 113
4-Nitrophenol	2.67	3.06		mg/Kg		115	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.19		mg/Kg		89	24 - 123
N-Nitrosodiphenylamine	2.67	2.33		mg/Kg		87	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	0.983		mg/Kg		74	30 - 115
Pentachlorophenol	2.67	2.55		mg/Kg		96	10 - 124
Phenanthrene	1.33	1.18		mg/Kg		88	48 - 121
Phenol	1.33	1.16		mg/Kg		87	41 - 110
Pyrene	1.33	1.18		mg/Kg		88	46 - 114
1,2,4-Trichlorobenzene	1.33	1.25		mg/Kg		94	49 - 110
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	41 - 120
2,4,6-Trichlorophenol	1.33	1.19		mg/Kg		89	44 - 118

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	84		25 - 119
2-Fluorophenol	85		25 - 110
Nitrobenzene-d5	97		25 - 115
Phenol-d5	84		31 - 110
Terphenyl-d14	95		36 - 134
2,4,6-Tribromophenol	96		35 - 137

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100833-21 MS**

**Matrix: Solid**  
**Analysis Batch: 303888**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303467**

Analyte	Sample	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
	Result			Result	Qualifier				
Acenaphthene	<0.037		1.53	1.32		mg/Kg	☼	86	46 - 110
Acenaphthylene	<0.037		1.53	1.34		mg/Kg	☼	87	49 - 110
Anthracene	<0.037		1.53	1.32		mg/Kg	☼	86	48 - 118
Benzo[a]anthracene	<0.037		1.53	1.41		mg/Kg	☼	92	49 - 121
Benzo[a]pyrene	<0.037		1.53	1.46		mg/Kg	☼	95	53 - 122
Benzo[b]fluoranthene	<0.037		1.53	1.58		mg/Kg	☼	103	54 - 122
Benzo[g,h,i]perylene	<0.037	F1	1.53	0.761	F1	mg/Kg	☼	50	52 - 125
Benzo[k]fluoranthene	<0.037		1.53	1.59		mg/Kg	☼	104	44 - 137
Bis(2-chloroethoxy)methane	<0.19		1.53	1.28		mg/Kg	☼	84	42 - 110
Bis(2-chloroethyl)ether	<0.19		1.53	1.07		mg/Kg	☼	70	32 - 110
Bis(2-ethylhexyl) phthalate	<0.19		1.53	1.48		mg/Kg	☼	97	47 - 133
4-Bromophenyl phenyl ether	<0.19		1.53	1.46		mg/Kg	☼	95	55 - 113
Butyl benzyl phthalate	<0.19		1.53	1.49		mg/Kg	☼	97	49 - 121
Carbazole	<0.19		1.53	1.47		mg/Kg	☼	96	26 - 188
4-Chloroaniline	<0.76		1.53	1.14		mg/Kg	☼	75	16 - 118
4-Chloro-3-methylphenol	<0.37		1.53	1.37		mg/Kg	☼	90	52 - 111
2-Chloronaphthalene	<0.19		1.53	1.23		mg/Kg	☼	80	52 - 114
2-Chlorophenol	<0.19		1.53	1.16		mg/Kg	☼	76	47 - 114
4-Chlorophenyl phenyl ether	<0.19		1.53	1.39		mg/Kg	☼	91	53 - 117
Chrysene	<0.037		1.53	1.36		mg/Kg	☼	89	45 - 118
Dibenz(a,h)anthracene	<0.037		1.53	0.902		mg/Kg	☼	59	48 - 134
Dibenzofuran	<0.19		1.53	1.33		mg/Kg	☼	87	51 - 119
1,2-Dichlorobenzene	<0.19		1.53	1.23		mg/Kg	☼	80	48 - 110
1,3-Dichlorobenzene	<0.19		1.53	1.21		mg/Kg	☼	79	44 - 110
1,4-Dichlorobenzene	<0.19		1.53	1.22		mg/Kg	☼	79	45 - 110
3,3'-Dichlorobenzidine	<0.19		1.53	0.783		mg/Kg	☼	51	26 - 128
2,4-Dichlorophenol	<0.37		1.53	1.56		mg/Kg	☼	101	53 - 113
Diethyl phthalate	<0.19		1.53	1.33		mg/Kg	☼	87	50 - 128
2,4-Dimethylphenol	<0.37		1.53	1.37		mg/Kg	☼	90	49 - 110
Dimethyl phthalate	<0.19		1.53	1.40		mg/Kg	☼	91	56 - 113
Di-n-butyl phthalate	<0.19		1.53	1.31		mg/Kg	☼	86	50 - 128
4,6-Dinitro-2-methylphenol	<0.76		3.07	2.19		mg/Kg	☼	71	10 - 110
2,4-Dinitrophenol	<0.76		3.07	0.750	J	mg/Kg	☼	24	10 - 110
2,4-Dinitrotoluene	<0.19		1.53	1.43		mg/Kg	☼	93	53 - 122
2,6-Dinitrotoluene	<0.19		1.53	1.43		mg/Kg	☼	93	54 - 117
Di-n-octyl phthalate	<0.19	F2	1.53	1.55		mg/Kg	☼	101	46 - 138
Fluoranthene	<0.037		1.53	1.52		mg/Kg	☼	99	48 - 128
Fluorene	<0.037		1.53	1.32		mg/Kg	☼	86	47 - 121
Hexachlorobenzene	<0.076		1.53	1.47		mg/Kg	☼	96	54 - 114
Hexachlorobutadiene	<0.19		1.53	1.42		mg/Kg	☼	93	47 - 114
Hexachlorocyclopentadiene	<0.76		1.53	0.463	J	mg/Kg	☼	30	10 - 110
Hexachloroethane	<0.19		1.53	1.17		mg/Kg	☼	77	44 - 110
Indeno[1,2,3-cd]pyrene	<0.037		1.53	0.968		mg/Kg	☼	63	49 - 132
Isophorone	<0.19		1.53	1.21		mg/Kg	☼	79	35 - 110
2-Methylnaphthalene	<0.037		1.53	1.23		mg/Kg	☼	80	48 - 110
2-Methylphenol	<0.19		1.53	1.22		mg/Kg	☼	80	44 - 110
3 & 4 Methylphenol	<0.19		1.53	1.25		mg/Kg	☼	81	37 - 122
Naphthalene	<0.037		1.53	1.31		mg/Kg	☼	85	48 - 110

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100833-21 MS**

**Matrix: Solid**

**Analysis Batch: 303888**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303467**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
2-Nitroaniline	<0.19		1.53	1.44		mg/Kg	☼	94	42 - 122
3-Nitroaniline	<0.37		1.53	1.36		mg/Kg	☼	89	36 - 131
4-Nitroaniline	<0.37		1.53	1.57		mg/Kg	☼	103	28 - 157
Nitrobenzene	<0.037		1.53	1.36		mg/Kg	☼	89	35 - 113
2-Nitrophenol	<0.37		1.53	1.48		mg/Kg	☼	97	48 - 113
4-Nitrophenol	<0.76		3.07	3.30		mg/Kg	☼	108	10 - 157
N-Nitrosodi-n-propylamine	<0.19		1.53	1.24		mg/Kg	☼	81	24 - 123
N-Nitrosodiphenylamine	<0.19		3.07	2.71		mg/Kg	☼	88	52 - 111
2,2'-oxybis[1-chloropropane]	<0.19		1.53	0.897		mg/Kg	☼	58	30 - 115
Pentachlorophenol	<0.76		3.07	0.957		mg/Kg	☼	31	10 - 124
Phenanthrene	<0.037		1.53	1.36		mg/Kg	☼	88	48 - 121
Phenol	<0.19		1.53	1.16		mg/Kg	☼	76	41 - 110
Pyrene	<0.037		1.53	1.41		mg/Kg	☼	92	46 - 114
1,2,4-Trichlorobenzene	<0.19		1.53	1.40		mg/Kg	☼	91	49 - 110
2,4,5-Trichlorophenol	<0.37		1.53	1.48		mg/Kg	☼	97	41 - 120
2,4,6-Trichlorophenol	<0.37		1.53	1.21		mg/Kg	☼	79	44 - 118

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	85		25 - 119
2-Fluorophenol	70		25 - 110
Nitrobenzene-d5	88		25 - 115
Phenol-d5	72		31 - 110
Terphenyl-d14	98		36 - 134
2,4,6-Tribromophenol	97		35 - 137

**Lab Sample ID: 500-100833-21 MSD**

**Matrix: Solid**

**Analysis Batch: 303888**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303467**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	<0.037		1.50	1.25		mg/Kg	☼	83	46 - 110	5	30
Acenaphthylene	<0.037		1.50	1.27		mg/Kg	☼	85	49 - 110	5	30
Anthracene	<0.037		1.50	1.23		mg/Kg	☼	82	48 - 118	7	30
Benzo[a]anthracene	<0.037		1.50	1.32		mg/Kg	☼	88	49 - 121	7	30
Benzo[a]pyrene	<0.037		1.50	1.37		mg/Kg	☼	91	53 - 122	7	30
Benzo[b]fluoranthene	<0.037		1.50	1.59		mg/Kg	☼	106	54 - 122	1	30
Benzo[g,h,i]perylene	<0.037	F1	1.50	0.737	F1	mg/Kg	☼	49	52 - 125	3	30
Benzo[k]fluoranthene	<0.037		1.50	1.56		mg/Kg	☼	104	44 - 137	2	30
Bis(2-chloroethoxy)methane	<0.19		1.50	1.10		mg/Kg	☼	73	42 - 110	15	30
Bis(2-chloroethyl)ether	<0.19		1.50	1.01		mg/Kg	☼	67	32 - 110	6	30
Bis(2-ethylhexyl) phthalate	<0.19		1.50	1.31		mg/Kg	☼	87	47 - 133	12	30
4-Bromophenyl phenyl ether	<0.19		1.50	1.31		mg/Kg	☼	87	55 - 113	11	30
Butyl benzyl phthalate	<0.19		1.50	1.38		mg/Kg	☼	92	49 - 121	7	30
Carbazole	<0.19		1.50	1.43		mg/Kg	☼	95	26 - 188	3	30
4-Chloroaniline	<0.76		1.50	1.05		mg/Kg	☼	70	16 - 118	9	30
4-Chloro-3-methylphenol	<0.37		1.50	1.29		mg/Kg	☼	86	52 - 111	6	30
2-Chloronaphthalene	<0.19		1.50	1.25		mg/Kg	☼	83	52 - 114	2	30
2-Chlorophenol	<0.19		1.50	1.15		mg/Kg	☼	77	47 - 114	0	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100833-21 MSD**

**Matrix: Solid**

**Analysis Batch: 303888**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303467**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result					Limits		
4-Chlorophenyl phenyl ether	<0.19		1.50	1.28		mg/Kg	☼	85	53 - 117	8	30
Chrysene	<0.037		1.50	1.25		mg/Kg	☼	83	45 - 118	8	30
Dibenz(a,h)anthracene	<0.037		1.50	0.858		mg/Kg	☼	57	48 - 134	5	30
Dibenzofuran	<0.19		1.50	1.27		mg/Kg	☼	85	51 - 119	5	30
1,2-Dichlorobenzene	<0.19		1.50	1.06		mg/Kg	☼	71	48 - 110	15	30
1,3-Dichlorobenzene	<0.19		1.50	1.15		mg/Kg	☼	76	44 - 110	5	30
1,4-Dichlorobenzene	<0.19		1.50	1.13		mg/Kg	☼	75	45 - 110	7	30
3,3'-Dichlorobenzidine	<0.19		1.50	0.924		mg/Kg	☼	61	26 - 128	17	30
2,4-Dichlorophenol	<0.37		1.50	1.45		mg/Kg	☼	96	53 - 113	7	30
Diethyl phthalate	<0.19		1.50	1.31		mg/Kg	☼	87	50 - 128	1	30
2,4-Dimethylphenol	<0.37		1.50	1.15		mg/Kg	☼	76	49 - 110	18	30
Dimethyl phthalate	<0.19		1.50	1.31		mg/Kg	☼	87	56 - 113	7	30
Di-n-butyl phthalate	<0.19		1.50	1.23		mg/Kg	☼	82	50 - 128	6	30
4,6-Dinitro-2-methylphenol	<0.76		3.00	1.65		mg/Kg	☼	55	10 - 110	28	30
2,4-Dinitrophenol	<0.76		3.00	0.728	J	mg/Kg	☼	24	10 - 110	3	30
2,4-Dinitrotoluene	<0.19		1.50	1.34		mg/Kg	☼	89	53 - 122	6	30
2,6-Dinitrotoluene	<0.19		1.50	1.32		mg/Kg	☼	88	54 - 117	8	30
Di-n-octyl phthalate	<0.19	F2	1.50	0.961	F2	mg/Kg	☼	64	46 - 138	47	30
Fluoranthene	<0.037		1.50	1.30		mg/Kg	☼	87	48 - 128	15	30
Fluorene	<0.037		1.50	1.24		mg/Kg	☼	82	47 - 121	7	30
Hexachlorobenzene	<0.076		1.50	1.35		mg/Kg	☼	90	54 - 114	9	30
Hexachlorobutadiene	<0.19		1.50	1.33		mg/Kg	☼	89	47 - 114	6	30
Hexachlorocyclopentadiene	<0.76		1.50	0.441	J	mg/Kg	☼	29	10 - 110	5	30
Hexachloroethane	<0.19		1.50	1.13		mg/Kg	☼	75	44 - 110	4	30
Indeno[1,2,3-cd]pyrene	<0.037		1.50	0.920		mg/Kg	☼	61	49 - 132	5	30
Isophorone	<0.19		1.50	1.09		mg/Kg	☼	73	35 - 110	10	30
2-Methylnaphthalene	<0.037		1.50	1.18		mg/Kg	☼	79	48 - 110	4	30
2-Methylphenol	<0.19		1.50	1.26		mg/Kg	☼	84	44 - 110	4	30
3 & 4 Methylphenol	<0.19		1.50	1.19		mg/Kg	☼	79	37 - 122	5	30
Naphthalene	<0.037		1.50	1.23		mg/Kg	☼	82	48 - 110	6	30
2-Nitroaniline	<0.19		1.50	1.31		mg/Kg	☼	87	42 - 122	9	30
3-Nitroaniline	<0.37		1.50	1.28		mg/Kg	☼	85	36 - 131	6	30
4-Nitroaniline	<0.37		1.50	1.54		mg/Kg	☼	102	28 - 157	3	30
Nitrobenzene	<0.037		1.50	1.14		mg/Kg	☼	76	35 - 113	18	30
2-Nitrophenol	<0.37		1.50	1.30		mg/Kg	☼	86	48 - 113	13	30
4-Nitrophenol	<0.76		3.00	3.91		mg/Kg	☼	130	10 - 157	17	30
N-Nitrosodi-n-propylamine	<0.19		1.50	1.10		mg/Kg	☼	73	24 - 123	12	30
N-Nitrosodiphenylamine	<0.19		3.00	2.42		mg/Kg	☼	81	52 - 111	11	30
2,2'-oxybis[1-chloropropane]	<0.19		1.50	0.807		mg/Kg	☼	54	30 - 115	11	30
Pentachlorophenol	<0.76		3.00	0.877		mg/Kg	☼	29	10 - 124	9	30
Phenanthrene	<0.037		1.50	1.23		mg/Kg	☼	82	48 - 121	10	30
Phenol	<0.19		1.50	1.06		mg/Kg	☼	71	41 - 110	9	30
Pyrene	<0.037		1.50	1.59		mg/Kg	☼	106	46 - 114	13	30
1,2,4-Trichlorobenzene	<0.19		1.50	1.33		mg/Kg	☼	89	49 - 110	5	30
2,4,5-Trichlorophenol	<0.37		1.50	1.39		mg/Kg	☼	92	41 - 120	7	30
2,4,6-Trichlorophenol	<0.37		1.50	1.20		mg/Kg	☼	80	44 - 118	1	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100833-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303888**

**Client Sample ID: 2618-7-B94 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303467**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	81		25 - 119
2-Fluorophenol	67		25 - 110
Nitrobenzene-d5	75		25 - 115
Phenol-d5	69		31 - 110
Terphenyl-d14	114		36 - 134
2,4,6-Tribromophenol	94		35 - 137

**Lab Sample ID: MB 500-303468/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/09/15 07:26	09/10/15 20:09	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303468/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/09/15 07:26	09/10/15 20:09	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/09/15 07:26	09/10/15 20:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	09/09/15 07:26	09/10/15 20:09	1
2-Fluorophenol	84		25 - 110	09/09/15 07:26	09/10/15 20:09	1
Nitrobenzene-d5	79		25 - 115	09/09/15 07:26	09/10/15 20:09	1
Phenol-d5	82		31 - 110	09/09/15 07:26	09/10/15 20:09	1
Terphenyl-d14	84		36 - 134	09/09/15 07:26	09/10/15 20:09	1
2,4,6-Tribromophenol	72		35 - 137	09/09/15 07:26	09/10/15 20:09	1

**Lab Sample ID: LCS 500-303468/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303468**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.33	1.03		mg/Kg		77	46 - 110
Acenaphthylene	1.33	1.06		mg/Kg		80	49 - 110
Anthracene	1.33	1.05		mg/Kg		79	48 - 118
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	49 - 121
Benzo[a]pyrene	1.33	1.09		mg/Kg		82	53 - 122
Benzo[b]fluoranthene	1.33	1.13		mg/Kg		85	54 - 122

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303468/2-A**

**Matrix: Solid**

**Analysis Batch: 303768**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303468**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	1.33	1.12		mg/Kg		84	52 - 125
Benzo[k]fluoranthene	1.33	1.09		mg/Kg		82	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.05		mg/Kg		79	42 - 110
Bis(2-chloroethyl)ether	1.33	1.05		mg/Kg		79	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.06		mg/Kg		79	47 - 133
4-Bromophenyl phenyl ether	1.33	1.12		mg/Kg		84	55 - 113
Butyl benzyl phthalate	1.33	1.06		mg/Kg		80	49 - 121
Carbazole	1.33	1.31		mg/Kg		99	26 - 188
4-Chloroaniline	1.33	0.635	J	mg/Kg		48	16 - 118
4-Chloro-3-methylphenol	1.33	0.999		mg/Kg		75	52 - 111
2-Chloronaphthalene	1.33	1.00		mg/Kg		75	52 - 114
2-Chlorophenol	1.33	1.04		mg/Kg		78	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.05		mg/Kg		79	53 - 117
Chrysene	1.33	1.13		mg/Kg		85	45 - 118
Dibenz(a,h)anthracene	1.33	1.16		mg/Kg		87	48 - 134
Dibenzofuran	1.33	1.06		mg/Kg		79	51 - 119
1,2-Dichlorobenzene	1.33	1.04		mg/Kg		78	48 - 110
1,3-Dichlorobenzene	1.33	0.969		mg/Kg		73	44 - 110
1,4-Dichlorobenzene	1.33	1.00		mg/Kg		75	45 - 110
3,3'-Dichlorobenzidine	1.33	0.815		mg/Kg		61	26 - 128
2,4-Dichlorophenol	1.33	1.07		mg/Kg		80	53 - 113
Diethyl phthalate	1.33	1.04		mg/Kg		78	50 - 128
2,4-Dimethylphenol	1.33	1.04		mg/Kg		78	49 - 110
Dimethyl phthalate	1.33	1.04		mg/Kg		78	56 - 113
Di-n-butyl phthalate	1.33	1.08		mg/Kg		81	50 - 128
4,6-Dinitro-2-methylphenol	2.67	1.40		mg/Kg		53	10 - 110
2,4-Dinitrophenol	2.67	0.759		mg/Kg		28	10 - 110
2,4-Dinitrotoluene	1.33	1.04		mg/Kg		78	53 - 122
2,6-Dinitrotoluene	1.33	1.07		mg/Kg		80	54 - 117
Di-n-octyl phthalate	1.33	1.12		mg/Kg		84	46 - 138
Fluoranthene	1.33	1.08		mg/Kg		81	48 - 128
Fluorene	1.33	1.02		mg/Kg		77	47 - 121
Hexachlorobenzene	1.33	1.13		mg/Kg		85	54 - 114
Hexachlorobutadiene	1.33	1.06		mg/Kg		79	47 - 114
Hexachlorocyclopentadiene	1.33	0.922		mg/Kg		69	10 - 110
Hexachloroethane	1.33	1.00		mg/Kg		75	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.09		mg/Kg		82	49 - 132
Isophorone	1.33	1.01		mg/Kg		75	35 - 110
2-Methylnaphthalene	1.33	1.02		mg/Kg		76	48 - 110
2-Methylphenol	1.33	1.07		mg/Kg		80	44 - 110
3 & 4 Methylphenol	1.33	1.07		mg/Kg		80	37 - 122
Naphthalene	1.33	1.04		mg/Kg		78	48 - 110
2-Nitroaniline	1.33	1.08		mg/Kg		81	42 - 122
3-Nitroaniline	1.33	1.40		mg/Kg		105	36 - 131
4-Nitroaniline	1.33	0.930		mg/Kg		70	28 - 157
Nitrobenzene	1.33	1.04		mg/Kg		78	35 - 113
2-Nitrophenol	1.33	1.06		mg/Kg		80	48 - 113
4-Nitrophenol	2.67	1.91		mg/Kg		72	10 - 157

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303468/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303468**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	24 - 123
N-Nitrosodiphenylamine	2.67	2.21		mg/Kg		83	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	1.03		mg/Kg		78	30 - 115
Pentachlorophenol	2.67	1.87		mg/Kg		70	10 - 124
Phenanthrene	1.33	1.08		mg/Kg		81	48 - 121
Phenol	1.33	1.15		mg/Kg		87	41 - 110
Pyrene	1.33	1.06		mg/Kg		79	46 - 114
1,2,4-Trichlorobenzene	1.33	1.04		mg/Kg		78	49 - 110
2,4,5-Trichlorophenol	1.33	1.09		mg/Kg		82	41 - 120
2,4,6-Trichlorophenol	1.33	1.05		mg/Kg		79	44 - 118

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		25 - 119
2-Fluorophenol	87		25 - 110
Nitrobenzene-d5	80		25 - 115
Phenol-d5	80		31 - 110
Terphenyl-d14	81		36 - 134
2,4,6-Tribromophenol	83		35 - 137

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303468**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.038		1.47	1.22		mg/Kg	☼	83	46 - 110
Acenaphthylene	<0.038		1.47	1.19		mg/Kg	☼	81	49 - 110
Anthracene	<0.038		1.47	1.18		mg/Kg	☼	80	48 - 118
Benzo[a]anthracene	<0.038		1.47	1.25		mg/Kg	☼	85	49 - 121
Benzo[a]pyrene	<0.038		1.47	1.18		mg/Kg	☼	81	53 - 122
Benzo[b]fluoranthene	<0.038		1.47	1.18		mg/Kg	☼	80	54 - 122
Benzo[g,h,i]perylene	<0.038	F1	1.47	0.804		mg/Kg	☼	55	52 - 125
Benzo[k]fluoranthene	<0.038		1.47	1.17		mg/Kg	☼	80	44 - 137
Bis(2-chloroethoxy)methane	<0.19		1.47	1.13		mg/Kg	☼	77	42 - 110
Bis(2-chloroethyl)ether	<0.19	F2	1.47	1.53		mg/Kg	☼	105	32 - 110
Bis(2-ethylhexyl) phthalate	<0.19		1.47	1.18		mg/Kg	☼	80	47 - 133
4-Bromophenyl phenyl ether	<0.19		1.47	1.17		mg/Kg	☼	80	55 - 113
Butyl benzyl phthalate	<0.19		1.47	1.12		mg/Kg	☼	77	49 - 121
Carbazole	<0.19		1.47	1.36		mg/Kg	☼	93	26 - 188
4-Chloroaniline	<0.77		1.47	1.18		mg/Kg	☼	80	16 - 118
4-Chloro-3-methylphenol	<0.38		1.47	1.08		mg/Kg	☼	73	52 - 111
2-Chloronaphthalene	<0.19		1.47	1.19		mg/Kg	☼	82	52 - 114
2-Chlorophenol	<0.19		1.47	1.14		mg/Kg	☼	78	47 - 114
4-Chlorophenyl phenyl ether	<0.19		1.47	1.18		mg/Kg	☼	81	53 - 117
Chrysene	<0.038		1.47	1.20		mg/Kg	☼	82	45 - 118
Dibenz(a,h)anthracene	<0.038		1.47	0.976		mg/Kg	☼	67	48 - 134
Dibenzofuran	<0.19		1.47	1.18		mg/Kg	☼	81	51 - 119
1,2-Dichlorobenzene	<0.19		1.47	1.13		mg/Kg	☼	77	48 - 110
1,3-Dichlorobenzene	<0.19		1.47	1.10		mg/Kg	☼	75	44 - 110

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100833-1 MS**

**Matrix: Solid**

**Analysis Batch: 303768**

**Client Sample ID: 2618-7-B45 (0-6)**

**Prep Type: Total/NA**

**Prep Batch: 303468**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,4-Dichlorobenzene	<0.19		1.47	1.10		mg/Kg	☼	75	45 - 110
3,3'-Dichlorobenzidine	<0.19		1.47	0.991		mg/Kg	☼	68	26 - 128
2,4-Dichlorophenol	<0.38		1.47	1.16		mg/Kg	☼	79	53 - 113
Diethyl phthalate	<0.19		1.47	1.17		mg/Kg	☼	80	50 - 128
2,4-Dimethylphenol	<0.38		1.47	1.12		mg/Kg	☼	77	49 - 110
Dimethyl phthalate	<0.19		1.47	1.17		mg/Kg	☼	80	56 - 113
Di-n-butyl phthalate	<0.19		1.47	1.16		mg/Kg	☼	79	50 - 128
4,6-Dinitro-2-methylphenol	<0.77		2.93	1.16		mg/Kg	☼	40	10 - 110
2,4-Dinitrophenol	<0.77	F1	2.93	<0.74	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrotoluene	<0.19		1.47	1.20		mg/Kg	☼	82	53 - 122
2,6-Dinitrotoluene	<0.19		1.47	1.22		mg/Kg	☼	84	54 - 117
Di-n-octyl phthalate	<0.19		1.47	1.30		mg/Kg	☼	89	46 - 138
Fluoranthene	<0.038		1.47	1.23		mg/Kg	☼	84	48 - 128
Fluorene	<0.038		1.47	1.17		mg/Kg	☼	80	47 - 121
Hexachlorobenzene	<0.077		1.47	1.20		mg/Kg	☼	82	54 - 114
Hexachlorobutadiene	<0.19		1.47	1.18		mg/Kg	☼	81	47 - 114
Hexachlorocyclopentadiene	<0.77		1.47	0.683	J	mg/Kg	☼	47	10 - 110
Hexachloroethane	<0.19		1.47	1.08		mg/Kg	☼	74	44 - 110
Indeno[1,2,3-cd]pyrene	<0.038		1.47	0.988		mg/Kg	☼	67	49 - 132
Isophorone	<0.19		1.47	1.12		mg/Kg	☼	77	35 - 110
2-Methylnaphthalene	<0.038		1.47	1.11		mg/Kg	☼	75	48 - 110
2-Methylphenol	<0.19		1.47	1.13		mg/Kg	☼	77	44 - 110
3 & 4 Methylphenol	<0.19		1.47	1.19		mg/Kg	☼	81	37 - 122
Naphthalene	<0.038		1.47	1.13		mg/Kg	☼	77	48 - 110
2-Nitroaniline	<0.19		1.47	1.25		mg/Kg	☼	85	42 - 122
3-Nitroaniline	<0.38		1.47	1.62		mg/Kg	☼	110	36 - 131
4-Nitroaniline	<0.38		1.47	1.05		mg/Kg	☼	71	28 - 157
Nitrobenzene	<0.038		1.47	1.15		mg/Kg	☼	78	35 - 113
2-Nitrophenol	<0.38		1.47	1.23		mg/Kg	☼	84	48 - 113
4-Nitrophenol	<0.77		2.93	2.82		mg/Kg	☼	96	10 - 157
N-Nitrosodi-n-propylamine	<0.19		1.47	1.15		mg/Kg	☼	78	24 - 123
N-Nitrosodiphenylamine	<0.19		2.93	2.33		mg/Kg	☼	79	52 - 111
2,2'-oxybis[1-chloropropane]	<0.19		1.47	1.13		mg/Kg	☼	77	30 - 115
Pentachlorophenol	<0.77	F1	2.93	0.751		mg/Kg	☼	26	10 - 124
Phenanthrene	<0.038		1.47	1.18		mg/Kg	☼	80	48 - 121
Phenol	<0.19		1.47	1.21		mg/Kg	☼	83	41 - 110
Pyrene	<0.038		1.47	1.13		mg/Kg	☼	77	46 - 114
1,2,4-Trichlorobenzene	<0.19		1.47	1.14		mg/Kg	☼	77	49 - 110
2,4,5-Trichlorophenol	<0.38		1.47	1.21		mg/Kg	☼	83	41 - 120
2,4,6-Trichlorophenol	<0.38		1.47	1.17		mg/Kg	☼	79	44 - 118

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	84		25 - 119
2-Fluorophenol	88		25 - 110
Nitrobenzene-d5	82		25 - 115
Phenol-d5	85		31 - 110
Terphenyl-d14	80		36 - 134
2,4,6-Tribromophenol	82		35 - 137

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Lab Sample ID: 500-100833-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303468**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result					Limits		
Acenaphthene	<0.038		1.46	1.07		mg/Kg	☼	73	46 - 110	13	30
Acenaphthylene	<0.038		1.46	1.07		mg/Kg	☼	74	49 - 110	11	30
Anthracene	<0.038		1.46	1.11		mg/Kg	☼	76	48 - 118	6	30
Benzo[a]anthracene	<0.038		1.46	1.08		mg/Kg	☼	74	49 - 121	15	30
Benzo[a]pyrene	<0.038		1.46	1.09		mg/Kg	☼	75	53 - 122	8	30
Benzo[b]fluoranthene	<0.038		1.46	1.08		mg/Kg	☼	74	54 - 122	9	30
Benzo[g,h,i]perylene	<0.038	F1	1.46	0.707	F1	mg/Kg	☼	49	52 - 125	13	30
Benzo[k]fluoranthene	<0.038		1.46	1.09		mg/Kg	☼	75	44 - 137	8	30
Bis(2-chloroethoxy)methane	<0.19		1.46	1.06		mg/Kg	☼	73	42 - 110	7	30
Bis(2-chloroethyl)ether	<0.19	F2	1.46	1.04	F2	mg/Kg	☼	72	32 - 110	38	30
Bis(2-ethylhexyl) phthalate	<0.19		1.46	1.04		mg/Kg	☼	71	47 - 133	12	30
4-Bromophenyl phenyl ether	<0.19		1.46	1.10		mg/Kg	☼	76	55 - 113	6	30
Butyl benzyl phthalate	<0.19		1.46	1.01		mg/Kg	☼	69	49 - 121	11	30
Carbazole	<0.19		1.46	1.34		mg/Kg	☼	92	26 - 188	2	30
4-Chloroaniline	<0.77		1.46	1.17		mg/Kg	☼	80	16 - 118	1	30
4-Chloro-3-methylphenol	<0.38		1.46	1.03		mg/Kg	☼	71	52 - 111	4	30
2-Chloronaphthalene	<0.19		1.46	1.09		mg/Kg	☼	75	52 - 114	9	30
2-Chlorophenol	<0.19		1.46	1.03		mg/Kg	☼	70	47 - 114	11	30
4-Chlorophenyl phenyl ether	<0.19		1.46	1.02		mg/Kg	☼	70	53 - 117	15	30
Chrysene	<0.038		1.46	1.10		mg/Kg	☼	76	45 - 118	8	30
Dibenz(a,h)anthracene	<0.038		1.46	0.853		mg/Kg	☼	59	48 - 134	13	30
Dibenzofuran	<0.19		1.46	1.06		mg/Kg	☼	73	51 - 119	11	30
1,2-Dichlorobenzene	<0.19		1.46	1.07		mg/Kg	☼	73	48 - 110	5	30
1,3-Dichlorobenzene	<0.19		1.46	0.993		mg/Kg	☼	68	44 - 110	11	30
1,4-Dichlorobenzene	<0.19		1.46	1.05		mg/Kg	☼	72	45 - 110	5	30
3,3'-Dichlorobenzidine	<0.19		1.46	0.837		mg/Kg	☼	57	26 - 128	17	30
2,4-Dichlorophenol	<0.38		1.46	1.05		mg/Kg	☼	72	53 - 113	10	30
Diethyl phthalate	<0.19		1.46	1.07		mg/Kg	☼	74	50 - 128	9	30
2,4-Dimethylphenol	<0.38		1.46	1.06		mg/Kg	☼	73	49 - 110	5	30
Dimethyl phthalate	<0.19		1.46	1.06		mg/Kg	☼	73	56 - 113	10	30
Di-n-butyl phthalate	<0.19		1.46	1.15		mg/Kg	☼	79	50 - 128	1	30
4,6-Dinitro-2-methylphenol	<0.77		2.91	0.886		mg/Kg	☼	30	10 - 110	27	30
2,4-Dinitrophenol	<0.77	F1	2.91	<0.73	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrotoluene	<0.19		1.46	1.11		mg/Kg	☼	76	53 - 122	8	30
2,6-Dinitrotoluene	<0.19		1.46	1.12		mg/Kg	☼	77	54 - 117	9	30
Di-n-octyl phthalate	<0.19		1.46	1.26		mg/Kg	☼	86	46 - 138	4	30
Fluoranthene	<0.038		1.46	1.20		mg/Kg	☼	82	48 - 128	3	30
Fluorene	<0.038		1.46	1.05		mg/Kg	☼	72	47 - 121	11	30
Hexachlorobenzene	<0.077		1.46	1.15		mg/Kg	☼	79	54 - 114	4	30
Hexachlorobutadiene	<0.19		1.46	1.13		mg/Kg	☼	78	47 - 114	4	30
Hexachlorocyclopentadiene	<0.77		1.46	0.555	J	mg/Kg	☼	38	10 - 110	21	30
Hexachloroethane	<0.19		1.46	1.03		mg/Kg	☼	71	44 - 110	4	30
Indeno[1,2,3-cd]pyrene	<0.038		1.46	0.868		mg/Kg	☼	60	49 - 132	13	30
Isophorone	<0.19		1.46	1.06		mg/Kg	☼	73	35 - 110	6	30
2-Methylnaphthalene	<0.038		1.46	1.06		mg/Kg	☼	73	48 - 110	5	30
2-Methylphenol	<0.19		1.46	1.04		mg/Kg	☼	71	44 - 110	9	30
3 & 4 Methylphenol	<0.19		1.46	1.13		mg/Kg	☼	77	37 - 122	6	30
Naphthalene	<0.038		1.46	1.10		mg/Kg	☼	76	48 - 110	3	30
2-Nitroaniline	<0.19		1.46	1.13		mg/Kg	☼	78	42 - 122	10	30
3-Nitroaniline	<0.38		1.46	1.51		mg/Kg	☼	104	36 - 131	7	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100833-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303768**

**Client Sample ID: 2618-7-B45 (0-6)**

**Prep Type: Total/NA**

**Prep Batch: 303468**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4-Nitroaniline	<0.38		1.46	0.991		mg/Kg	☼	68	28 - 157	5	30
Nitrobenzene	<0.038		1.46	1.07		mg/Kg	☼	73	35 - 113	8	30
2-Nitrophenol	<0.38		1.46	1.11		mg/Kg	☼	76	48 - 113	10	30
4-Nitrophenol	<0.77		2.91	2.39		mg/Kg	☼	82	10 - 157	16	30
N-Nitrosodi-n-propylamine	<0.19		1.46	1.07		mg/Kg	☼	73	24 - 123	7	30
N-Nitrosodiphenylamine	<0.19		2.91	2.24		mg/Kg	☼	77	52 - 111	4	30
2,2'-oxybis[1-chloropropane]	<0.19		1.46	1.03		mg/Kg	☼	71	30 - 115	10	30
Pentachlorophenol	<0.77	F1	2.91	<0.73	F1	mg/Kg	☼	0	10 - 124	NC	30
Phenanthrene	<0.038		1.46	1.11		mg/Kg	☼	76	48 - 121	6	30
Phenol	<0.19		1.46	1.12		mg/Kg	☼	77	41 - 110	8	30
Pyrene	<0.038		1.46	0.997		mg/Kg	☼	69	46 - 114	13	30
1,2,4-Trichlorobenzene	<0.19		1.46	1.08		mg/Kg	☼	74	49 - 110	5	30
2,4,5-Trichlorophenol	<0.38		1.46	1.03		mg/Kg	☼	71	41 - 120	17	30
2,4,6-Trichlorophenol	<0.38		1.46	1.01		mg/Kg	☼	69	44 - 118	14	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	74		25 - 119
2-Fluorophenol	81		25 - 110
Nitrobenzene-d5	77		25 - 115
Phenol-d5	74		31 - 110
Terphenyl-d14	73		36 - 134
2,4,6-Tribromophenol	72		35 - 137

**Lab Sample ID: MB 500-303651/1-A**

**Matrix: Solid**

**Analysis Batch: 303768**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303651**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/10/15 07:29	09/10/15 19:43	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303651/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303651**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/10/15 07:29	09/10/15 19:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/10/15 07:29	09/10/15 19:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/10/15 07:29	09/10/15 19:43	1
2-Fluorophenol	91		25 - 110	09/10/15 07:29	09/10/15 19:43	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303651/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303651**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	84		25 - 115	09/10/15 07:29	09/10/15 19:43	1
Phenol-d5	85		31 - 110	09/10/15 07:29	09/10/15 19:43	1
Terphenyl-d14	86		36 - 134	09/10/15 07:29	09/10/15 19:43	1
2,4,6-Tribromophenol	80		35 - 137	09/10/15 07:29	09/10/15 19:43	1

**Lab Sample ID: LCS 500-303651/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303651**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.07		mg/Kg		80	46 - 110
Acenaphthylene	1.33	1.09		mg/Kg		81	49 - 110
Anthracene	1.33	1.07		mg/Kg		81	48 - 118
Benzo[a]anthracene	1.33	1.07		mg/Kg		80	49 - 121
Benzo[a]pyrene	1.33	1.07		mg/Kg		80	53 - 122
Benzo[b]fluoranthene	1.33	1.00		mg/Kg		75	54 - 122
Benzo[g,h,i]perylene	1.33	1.09		mg/Kg		82	52 - 125
Benzo[k]fluoranthene	1.33	1.00		mg/Kg		75	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.07		mg/Kg		80	42 - 110
Bis(2-chloroethyl)ether	1.33	1.01		mg/Kg		75	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.03		mg/Kg		77	47 - 133
4-Bromophenyl phenyl ether	1.33	1.06		mg/Kg		80	55 - 113
Butyl benzyl phthalate	1.33	1.02		mg/Kg		77	49 - 121
Carbazole	1.33	1.27		mg/Kg		95	26 - 188
4-Chloroaniline	1.33	1.26		mg/Kg		95	16 - 118
4-Chloro-3-methylphenol	1.33	1.01		mg/Kg		76	52 - 111
2-Chloronaphthalene	1.33	1.07		mg/Kg		80	52 - 114
2-Chlorophenol	1.33	1.04		mg/Kg		78	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.07		mg/Kg		80	53 - 117
Chrysene	1.33	1.06		mg/Kg		79	45 - 118
Dibenz(a,h)anthracene	1.33	1.16		mg/Kg		87	48 - 134
Dibenzofuran	1.33	1.07		mg/Kg		80	51 - 119
1,2-Dichlorobenzene	1.33	1.05		mg/Kg		79	48 - 110
1,3-Dichlorobenzene	1.33	0.991		mg/Kg		74	44 - 110
1,4-Dichlorobenzene	1.33	1.02		mg/Kg		77	45 - 110
3,3'-Dichlorobenzidine	1.33	0.875		mg/Kg		66	26 - 128
2,4-Dichlorophenol	1.33	1.09		mg/Kg		81	53 - 113
Diethyl phthalate	1.33	1.04		mg/Kg		78	50 - 128
2,4-Dimethylphenol	1.33	1.06		mg/Kg		80	49 - 110
Dimethyl phthalate	1.33	1.05		mg/Kg		79	56 - 113
Di-n-butyl phthalate	1.33	1.07		mg/Kg		80	50 - 128
4,6-Dinitro-2-methylphenol	2.67	1.36		mg/Kg		51	10 - 110
2,4-Dinitrophenol	2.67	0.950		mg/Kg		36	10 - 110
2,4-Dinitrotoluene	1.33	1.07		mg/Kg		80	53 - 122
2,6-Dinitrotoluene	1.33	1.11		mg/Kg		83	54 - 117
Di-n-octyl phthalate	1.33	1.10		mg/Kg		82	46 - 138
Fluoranthene	1.33	1.10		mg/Kg		82	48 - 128
Fluorene	1.33	1.05		mg/Kg		79	47 - 121

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303651/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303768**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303651**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	1.33	1.07		mg/Kg		80	54 - 114
Hexachlorobutadiene	1.33	1.10		mg/Kg		83	47 - 114
Hexachlorocyclopentadiene	1.33	0.991		mg/Kg		74	10 - 110
Hexachloroethane	1.33	1.01		mg/Kg		76	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.19		mg/Kg		89	49 - 132
Isophorone	1.33	1.01		mg/Kg		76	35 - 110
2-Methylnaphthalene	1.33	1.05		mg/Kg		79	48 - 110
2-Methylphenol	1.33	0.986		mg/Kg		74	44 - 110
3 & 4 Methylphenol	1.33	1.14		mg/Kg		85	37 - 122
Naphthalene	1.33	1.07		mg/Kg		80	48 - 110
2-Nitroaniline	1.33	1.18		mg/Kg		88	42 - 122
3-Nitroaniline	1.33	1.46		mg/Kg		110	36 - 131
4-Nitroaniline	1.33	0.943		mg/Kg		71	28 - 157
Nitrobenzene	1.33	1.05		mg/Kg		79	35 - 113
2-Nitrophenol	1.33	1.10		mg/Kg		83	48 - 113
4-Nitrophenol	2.67	2.39		mg/Kg		90	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.06		mg/Kg		79	24 - 123
N-Nitrosodiphenylamine	2.67	2.18		mg/Kg		82	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	1.04		mg/Kg		78	30 - 115
Pentachlorophenol	2.67	1.99		mg/Kg		75	10 - 124
Phenanthrene	1.33	1.06		mg/Kg		79	48 - 121
Phenol	1.33	1.11		mg/Kg		84	41 - 110
Pyrene	1.33	1.03		mg/Kg		77	46 - 114
1,2,4-Trichlorobenzene	1.33	1.04		mg/Kg		78	49 - 110
2,4,5-Trichlorophenol	1.33	1.07		mg/Kg		80	41 - 120
2,4,6-Trichlorophenol	1.33	1.10		mg/Kg		82	44 - 118

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	81		25 - 119
2-Fluorophenol	87		25 - 110
Nitrobenzene-d5	85		25 - 115
Phenol-d5	80		31 - 110
Terphenyl-d14	80		36 - 134
2,4,6-Tribromophenol	80		35 - 137

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 500-303362/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Barium	<1.0		1.0	0.18	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Chromium	1.65		1.0	0.17	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Cobalt	<0.50		0.50	0.11	mg/Kg		09/08/15 12:00	09/09/15 03:27	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 500-303362/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<1.0		1.0	0.22	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Iron	10.4	J	20	7.7	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Lead	<0.50		0.50	0.25	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Magnesium	<10		10	4.1	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Calcium	6.76	J	20	6.4	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Manganese	<1.0		1.0	0.20	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Nickel	0.937	J	1.0	0.27	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Silver	<0.50		0.50	0.12	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Zinc	1.03	J	2.0	0.63	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Potassium	<50		50	8.2	mg/Kg		09/08/15 12:00	09/09/15 03:27	1
Sodium	<100		100	13	mg/Kg		09/08/15 12:00	09/09/15 03:27	1

**Lab Sample ID: MB 500-303362/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303664**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.20		0.20	0.058	mg/Kg		09/08/15 12:00	09/10/15 01:13	1

**Lab Sample ID: LCS 500-303362/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.2		mg/Kg		94	80 - 120
Arsenic	10.0	9.88		mg/Kg		99	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.96		mg/Kg		99	80 - 120
Chromium	20.0	21.4		mg/Kg		107	80 - 120
Cobalt	50.0	48.6		mg/Kg		97	80 - 120
Copper	25.0	25.1		mg/Kg		100	80 - 120
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	10.0		mg/Kg		100	80 - 120
Magnesium	1000	973		mg/Kg		97	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Manganese	50.0	49.7		mg/Kg		99	80 - 120
Nickel	50.0	51.1		mg/Kg		102	80 - 120
Selenium	10.0	9.33		mg/Kg		93	80 - 120
Silver	5.00	4.99		mg/Kg		100	80 - 120
Thallium	5.00	4.60		mg/Kg		92	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	49.1		mg/Kg		98	80 - 120
Potassium	1000	969		mg/Kg		97	80 - 120
Sodium	1000	947		mg/Kg		95	80 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-303362/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303664**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	5.00	5.03		mg/Kg		101	80 - 120

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.54	J F1	28.6	5.90	F1	mg/Kg	☼	19	75 - 125
Arsenic	5.7		5.72	10.6		mg/Kg	☼	85	75 - 125
Barium	37		114	145		mg/Kg	☼	94	75 - 125
Beryllium	0.64		2.86	3.24		mg/Kg	☼	91	75 - 125
Chromium	21	B	11.4	33.8		mg/Kg	☼	112	75 - 125
Cobalt	9.1	F1	28.6	30.0	F1	mg/Kg	☼	73	75 - 125
Copper	17		14.3	32.1		mg/Kg	☼	107	75 - 125
Iron	16000	B	57.2	17900	4	mg/Kg	☼	2596	75 - 125
Lead	8.5		5.72	13.0		mg/Kg	☼	78	75 - 125
Magnesium	34000		572	36600	4	mg/Kg	☼	492	75 - 125
Manganese	360		28.6	424	4	mg/Kg	☼	214	75 - 125
Nickel	25	B	28.6	48.0		mg/Kg	☼	81	75 - 125
Selenium	0.54	J F1	5.72	4.86		mg/Kg	☼	76	75 - 125
Silver	0.078	J	2.86	2.80		mg/Kg	☼	95	75 - 125
Thallium	0.46	J	2.86	2.69		mg/Kg	☼	78	75 - 125
Vanadium	18		28.6	49.3		mg/Kg	☼	108	75 - 125
Zinc	34	B	28.6	56.3		mg/Kg	☼	79	75 - 125
Potassium	3400		572	6580	4	mg/Kg	☼	558	75 - 125
Sodium	180	F1	572	910	F1	mg/Kg	☼	127	75 - 125

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303664**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.19		2.86	2.73		mg/Kg	☼	89	75 - 125

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303664**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	74000	B	572	85900	4	mg/Kg	☼	2045	75 - 125

**Lab Sample ID: 500-100833-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.54	J F1	27.3	5.62	F1	mg/Kg	☼	19	75 - 125	5	20
Arsenic	5.7		5.47	10.3		mg/Kg	☼	85	75 - 125	2	20
Barium	37		109	136		mg/Kg	☼	91	75 - 125	6	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B45 (0-6)**

**Prep Type: Total/NA**

**Prep Batch: 303362**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Beryllium	0.64		2.73	3.07		mg/Kg	☼	89	75 - 125	5	20	
Chromium	21	B	10.9	31.1		mg/Kg	☼	93	75 - 125	8	20	
Cobalt	9.1	F1	27.3	29.3	F1	mg/Kg	☼	74	75 - 125	3	20	
Copper	17		13.7	31.1		mg/Kg	☼	105	75 - 125	3	20	
Iron	16000	B	54.7	18400	4	mg/Kg	☼	3623	75 - 125	3	20	
Lead	8.5		5.47	13.3		mg/Kg	☼	88	75 - 125	3	20	
Magnesium	34000		547	35200	4	mg/Kg	☼	261	75 - 125	4	20	
Manganese	360		27.3	442	4	mg/Kg	☼	290	75 - 125	4	20	
Nickel	25	B	27.3	46.8		mg/Kg	☼	81	75 - 125	2	20	
Selenium	0.54	J F1	5.47	4.48	F1	mg/Kg	☼	72	75 - 125	8	20	
Silver	0.078	J	2.73	2.57		mg/Kg	☼	91	75 - 125	8	20	
Thallium	0.46	J	2.73	2.78		mg/Kg	☼	85	75 - 125	3	20	
Vanadium	18		27.3	47.4		mg/Kg	☼	106	75 - 125	4	20	
Zinc	34	B	27.3	55.1		mg/Kg	☼	79	75 - 125	2	20	
Potassium	3400		547	6230	4	mg/Kg	☼	520	75 - 125	5	20	
Sodium	180	F1	547	831		mg/Kg	☼	119	75 - 125	9	20	

**Lab Sample ID: 500-100833-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303664**

**Client Sample ID: 2618-7-B45 (0-6)**

**Prep Type: Total/NA**

**Prep Batch: 303362**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Cadmium	0.19		2.73	2.51		mg/Kg	☼	85	75 - 125	9	20	

**Lab Sample ID: 500-100833-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303664**

**Client Sample ID: 2618-7-B45 (0-6)**

**Prep Type: Total/NA**

**Prep Batch: 303362**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Calcium	74000	B	547	80400	4	mg/Kg	☼	1135	75 - 125	7	20	

**Lab Sample ID: 500-100833-1 DU**

**Matrix: Solid**

**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B45 (0-6)**

**Prep Type: Total/NA**

**Prep Batch: 303362**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.54	J F1	0.407	J F5	mg/Kg	☼	28	20
Arsenic	5.7		5.33		mg/Kg	☼	6	20
Barium	37		39.8		mg/Kg	☼	7	20
Beryllium	0.64		0.683		mg/Kg	☼	6	20
Chromium	21	B	18.5		mg/Kg	☼	12	20
Cobalt	9.1	F1	8.47		mg/Kg	☼	7	20
Copper	17		23.5	F3	mg/Kg	☼	33	20
Iron	16000	B	17500		mg/Kg	☼	6	20
Lead	8.5		7.97		mg/Kg	☼	6	20
Magnesium	34000		37900		mg/Kg	☼	11	20
Manganese	360		400		mg/Kg	☼	10	20
Nickel	25	B	24.0		mg/Kg	☼	3	20
Selenium	0.54	J F1	0.502	J	mg/Kg	☼	6	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303498**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Silver	0.078	J	0.0970	J F5	mg/Kg	☼	21	20
Thallium	0.46	J	0.706	F5	mg/Kg	☼	42	20
Vanadium	18		22.9	F3	mg/Kg	☼	22	20
Zinc	34	B	34.0		mg/Kg	☼	1	20
Potassium	3400		3750		mg/Kg	☼	10	20
Sodium	180	F1	203		mg/Kg	☼	10	20

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303664**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cadmium	0.19		0.192		mg/Kg	☼	0.9	20

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303664**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303362**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	74000	B	83800		mg/Kg	☼	12	20

**Lab Sample ID: MB 500-303585/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303871**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Barium	<1.0		1.0	0.18	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Cadmium	<0.20		0.20	0.058	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Chromium	<1.0		1.0	0.17	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Cobalt	<0.50		0.50	0.11	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Copper	<1.0		1.0	0.22	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Iron	9.39	J	20	7.7	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Lead	<0.50		0.50	0.25	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Magnesium	<10		10	4.1	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Calcium	<20		20	6.4	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Manganese	<1.0		1.0	0.20	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Nickel	<1.0		1.0	0.27	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Silver	<0.50		0.50	0.12	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Zinc	3.19		2.0	0.63	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Potassium	<50		50	8.2	mg/Kg		09/09/15 16:07	09/10/15 22:08	1
Sodium	<100		100	13	mg/Kg		09/09/15 16:07	09/10/15 22:08	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-303585/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303871**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	48.8		mg/Kg		98	80 - 120
Arsenic	10.0	9.81		mg/Kg		98	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	5.22		mg/Kg		104	80 - 120
Cadmium	5.00	5.01		mg/Kg		100	80 - 120
Chromium	20.0	21.0		mg/Kg		105	80 - 120
Cobalt	50.0	51.3		mg/Kg		103	80 - 120
Copper	25.0	25.1		mg/Kg		100	80 - 120
Iron	100	106		mg/Kg		106	80 - 120
Lead	10.0	10.6		mg/Kg		106	80 - 120
Magnesium	1000	1040		mg/Kg		104	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Manganese	50.0	52.4		mg/Kg		105	80 - 120
Nickel	50.0	50.4		mg/Kg		101	80 - 120
Selenium	10.0	9.06		mg/Kg		91	80 - 120
Silver	5.00	4.74		mg/Kg		95	80 - 120
Thallium	5.00	5.28		mg/Kg		106	80 - 120
Vanadium	50.0	52.0		mg/Kg		104	80 - 120
Zinc	50.0	52.6		mg/Kg		105	80 - 120
Potassium	1000	974		mg/Kg		97	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120

**Lab Sample ID: 500-100833-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 303871**

**Client Sample ID: 2618-7-B94 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.54	J F1	27.5	5.44	F1	mg/Kg	☼	18	75 - 125
Arsenic	7.5		5.51	12.6		mg/Kg	☼	93	75 - 125
Barium	41		110	157		mg/Kg	☼	105	75 - 125
Beryllium	0.70		2.75	3.32		mg/Kg	☼	95	75 - 125
Cadmium	0.43		2.75	2.63		mg/Kg	☼	80	75 - 125
Chromium	19		11.0	32.5		mg/Kg	☼	121	75 - 125
Cobalt	14	F1	27.5	32.0	F1	mg/Kg	☼	67	75 - 125
Copper	24		13.8	36.2		mg/Kg	☼	92	75 - 125
Iron	20000	B	55.1	21000	4	mg/Kg	☼	1644	75 - 125
Lead	17	F1	5.51	16.7	F1	mg/Kg	☼	-8	75 - 125
Magnesium	33000	F2	551	34600	4	mg/Kg	☼	201	75 - 125
Manganese	510		27.5	412	4	mg/Kg	☼	-366	75 - 125
Nickel	31	F1	27.5	47.3	F1	mg/Kg	☼	60	75 - 125
Selenium	<0.56	F1	5.51	4.08	F1	mg/Kg	☼	74	75 - 125
Silver	<0.28		2.75	2.59		mg/Kg	☼	94	75 - 125
Thallium	1.4	F1	2.75	3.36	F1	mg/Kg	☼	71	75 - 125
Vanadium	22		27.5	53.4		mg/Kg	☼	116	75 - 125
Zinc	45	B	27.5	67.7		mg/Kg	☼	81	75 - 125
Potassium	3400		551	5740	4	mg/Kg	☼	422	75 - 125

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-21 MS**

**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Added	Result				
Calcium	89000		551	88500	4	mg/Kg	☼	-56	75 - 125
Sodium	3500		551	4160	4	mg/Kg	☼	123	75 - 125

**Lab Sample ID: 500-100833-21 MSD**

**Matrix: Solid**  
**Analysis Batch: 303871**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result						
Antimony	0.54	J F1	28.2	6.32	F1	mg/Kg	☼	20	75 - 125	15	20
Arsenic	7.5		5.65	12.5		mg/Kg	☼	88	75 - 125	1	20
Barium	41		113	135		mg/Kg	☼	83	75 - 125	15	20
Beryllium	0.70		2.82	3.31		mg/Kg	☼	92	75 - 125	0	20
Cadmium	0.43		2.82	2.69		mg/Kg	☼	80	75 - 125	2	20
Chromium	19		11.3	30.0		mg/Kg	☼	96	75 - 125	8	20
Cobalt	14	F1	28.2	33.5	F1	mg/Kg	☼	70	75 - 125	5	20
Copper	24		14.1	35.1		mg/Kg	☼	82	75 - 125	3	20
Iron	20000	B	56.5	19800	4	mg/Kg	☼	-602	75 - 125	6	20
Lead	17	F1	5.65	17.0	F1	mg/Kg	☼	-2	75 - 125	2	20
Magnesium	33000	F2	565	42700	4 F2	mg/Kg	☼	1638	75 - 125	21	20
Manganese	510		28.2	440	4	mg/Kg	☼	-256	75 - 125	7	20
Nickel	31	F1	28.2	47.6	F1	mg/Kg	☼	59	75 - 125	1	20
Selenium	<0.56	F1	5.65	4.21		mg/Kg	☼	75	75 - 125	3	20
Silver	<0.28		2.82	2.61		mg/Kg	☼	92	75 - 125	1	20
Thallium	1.4	F1	2.82	3.79		mg/Kg	☼	85	75 - 125	12	20
Vanadium	22		28.2	49.8		mg/Kg	☼	100	75 - 125	7	20
Zinc	45	B	28.2	70.0		mg/Kg	☼	87	75 - 125	3	20
Potassium	3400		565	5280	4	mg/Kg	☼	329	75 - 125	8	20

**Lab Sample ID: 500-100833-21 MSD**

**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result						
Calcium	89000		565	97900	4	mg/Kg	☼	1603	75 - 125	10	20
Sodium	3500		565	3460	4	mg/Kg	☼	-4	75 - 125	18	20

**Lab Sample ID: 500-100833-21 DU**

**Matrix: Solid**  
**Analysis Batch: 303871**

**Client Sample ID: 2618-7-B94 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Sample	Sample	DU	DU		Unit	D	RPD	Limit
	Result	Qualifier		Result	Qualifier				
Antimony	0.54	J F1	0.291	J F5	mg/Kg	☼	60	20	
Arsenic	7.5		7.52		mg/Kg	☼	0.2	20	
Barium	41		32.5	F3	mg/Kg	☼	24	20	
Beryllium	0.70		0.695		mg/Kg	☼	1	20	
Cadmium	0.43		0.395		mg/Kg	☼	8	20	
Chromium	19		19.3		mg/Kg	☼	1	20	
Cobalt	14	F1	9.19	F3	mg/Kg	☼	39	20	
Copper	24		24.9		mg/Kg	☼	5	20	

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 303871**

**Client Sample ID: 2618-7-B94 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Iron	20000	B	20100		mg/Kg	☼	0.2	20
Lead	17	F1	19.2		mg/Kg	☼	11	20
Magnesium	33000	F2	34100		mg/Kg	☼	2	20
Manganese	510		393	F3	mg/Kg	☼	26	20
Nickel	31	F1	25.4		mg/Kg	☼	19	20
Selenium	<0.56	F1	<0.54		mg/Kg	☼	NC	20
Silver	<0.28		<0.27		mg/Kg	☼	NC	20
Thallium	1.4	F1	1.26		mg/Kg	☼	11	20
Vanadium	22		21.1		mg/Kg	☼	2	20
Zinc	45	B	46.9		mg/Kg	☼	3	20
Potassium	3400		3350		mg/Kg	☼	2	20

**Lab Sample ID: 500-100833-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 304083**

**Client Sample ID: 2618-7-B94 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303585**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	89000		91400		mg/Kg	☼	3	20
Sodium	3500		3470		mg/Kg	☼	0.2	20

**Lab Sample ID: LCS 500-303916/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303916**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	0.100	0.0994		mg/L		99	80 - 120	
Barium	0.500	0.476	J	mg/L		95	80 - 120	
Beryllium	0.0500	0.0506		mg/L		101	80 - 120	
Cadmium	0.0500	0.0488		mg/L		98	80 - 120	
Chromium	0.200	0.200		mg/L		100	80 - 120	
Cobalt	0.500	0.501		mg/L		100	80 - 120	
Copper	0.250	0.242		mg/L		97	80 - 120	
Iron	1.00	1.03		mg/L		103	80 - 120	
Lead	0.100	0.0991		mg/L		99	80 - 120	
Magnesium	10.0	9.96		mg/L		100	80 - 120	
Calcium	10.0	9.95		mg/L		99	80 - 120	
Manganese	0.500	0.513		mg/L		103	80 - 120	
Nickel	0.500	0.485		mg/L		97	80 - 120	
Selenium	0.100	0.0920		mg/L		92	80 - 120	
Silver	0.0500	0.0489		mg/L		98	80 - 120	
Vanadium	0.500	0.507		mg/L		101	80 - 120	
Zinc	0.500	0.508		mg/L		102	80 - 120	
Potassium	10.0	8.79		mg/L		88	80 - 120	

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-303917/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304074**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303917**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0962		mg/L		96	80 - 120
Barium	0.500	0.494	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0995		mg/L		100	80 - 120
Magnesium	10.0	9.78		mg/L		98	80 - 120
Calcium	10.0	9.92		mg/L		99	80 - 120
Manganese	0.500	0.506		mg/L		101	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	0.100	0.0921		mg/L		92	80 - 120
Silver	0.0500	0.0495		mg/L		99	80 - 120
Vanadium	0.500	0.503		mg/L		101	80 - 120
Zinc	0.500	0.488		mg/L		98	80 - 120
Potassium	10.0	9.29		mg/L		93	80 - 120

**Lab Sample ID: LCS 500-304045/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304285**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304045**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0958		mg/L		96	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Copper	0.250	0.256		mg/L		102	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0971		mg/L		97	80 - 120
Magnesium	10.0	9.94		mg/L		99	80 - 120
Calcium	10.0	9.47		mg/L		95	80 - 120
Manganese	0.500	0.499		mg/L		100	80 - 120
Nickel	0.500	0.493		mg/L		99	80 - 120
Selenium	0.100	0.0914		mg/L		91	80 - 120
Silver	0.0500	0.0500		mg/L		100	80 - 120
Vanadium	0.500	0.520		mg/L		104	80 - 120
Zinc	0.500	0.486		mg/L		97	80 - 120
Potassium	10.0	11.1		mg/L		111	80 - 120

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-304146/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304289**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304146**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0931		mg/L		93	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Copper	0.250	0.257		mg/L		103	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Magnesium	10.0	9.90		mg/L		99	80 - 120
Calcium	10.0	9.91		mg/L		99	80 - 120
Manganese	0.500	0.524		mg/L		105	80 - 120
Nickel	0.500	0.483		mg/L		97	80 - 120
Selenium	0.100	0.0983		mg/L		98	80 - 120
Silver	0.0500	0.0497		mg/L		99	80 - 120
Vanadium	0.500	0.519		mg/L		104	80 - 120
Zinc	0.500	0.511		mg/L		102	80 - 120
Potassium	10.0	9.43		mg/L		94	80 - 120

**Lab Sample ID: LCS 500-304419/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304563**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304419**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.500	0.535		mg/L		107	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Chromium	0.200	0.211		mg/L		105	80 - 120
Cobalt	0.500	0.531		mg/L		106	80 - 120
Copper	0.250	0.267		mg/L		107	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Magnesium	10.0	10.1		mg/L		101	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120
Manganese	0.500	0.526		mg/L		105	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.0935		mg/L		93	80 - 120
Silver	0.0500	0.0517		mg/L		103	80 - 120
Vanadium	0.500	0.531		mg/L		106	80 - 120
Zinc	0.500	0.519		mg/L		104	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-304680/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304723**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304680**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0968		mg/L		97	80 - 120

**Lab Sample ID: LB 500-303962/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304285**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Barium	<0.50		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 12:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 12:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 12:38	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 12:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 12:38	1
Magnesium	<2.5		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:38	1
Calcium	<2.5		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:38	1
Manganese	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 12:38	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:38	1
Zinc	0.0323	J	0.10	0.020	mg/L		09/13/15 18:10	09/14/15 12:38	1
Potassium	<2.5		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:38	1

**Lab Sample ID: LB2 500-303963/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304285**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Barium	<0.50		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 12:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 12:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 12:42	1
Chromium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Copper	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Iron	<0.20		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 12:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 12:42	1
Magnesium	<2.5		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:42	1
Calcium	0.771	J	2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:42	1
Manganese	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Nickel	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 12:42	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Vanadium	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 12:42	1
Zinc	<0.10		0.10	0.020	mg/L		09/13/15 18:10	09/14/15 12:42	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB2 500-303963/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304285**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Potassium	<2.5		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 12:42	1

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304285**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Arsenic	<0.050		0.100	0.112		mg/L		112	50 - 150
Barium	0.096	J	0.500	0.619		mg/L		105	50 - 150
Beryllium	<0.0040		0.0500	0.0526		mg/L		105	50 - 150
Cadmium	<0.0050		0.0500	0.0533		mg/L		107	50 - 150
Chromium	<0.025		0.200	0.189		mg/L		94	50 - 150
Cobalt	<0.025		0.500	0.536		mg/L		107	50 - 150
Copper	<0.025		0.250	0.282		mg/L		113	50 - 150
Iron	<0.20		1.00	1.00		mg/L		100	50 - 150
Lead	<0.0075		0.100	0.103		mg/L		103	50 - 150
Magnesium	58		10.0	78.5	4	mg/L		209	50 - 150
Manganese	0.45		0.500	1.02		mg/L		113	50 - 150
Nickel	<0.025		0.500	0.520		mg/L		104	50 - 150
Selenium	<0.050		0.100	0.110		mg/L		110	50 - 150
Silver	<0.025		0.0500	0.0541		mg/L		108	50 - 150
Vanadium	<0.025		0.500	0.510		mg/L		102	50 - 150
Zinc	0.032	J	0.500	0.526		mg/L		99	50 - 150
Potassium	<2.5		10.0	11.9		mg/L		119	50 - 150

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304456**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Calcium	580	B	10.0	721	4	mg/L		1434	50 - 150

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304285**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.096	J	0.0971	J	mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Copper	<0.025		<0.025		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	58		58.3		mg/L		1	20
Manganese	0.45		0.452		mg/L		0.3	20
Nickel	<0.025		<0.025		mg/L		NC	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304285**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.032	J	0.0267	J	mg/L		19	20
Potassium	<2.5		<2.5		mg/L		NC	20

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304456**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	580	B	635		mg/L		10	20

**Lab Sample ID: LB 500-304061/1-D**  
**Matrix: Solid**  
**Analysis Batch: 304289**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Barium	<0.50		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 17:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 17:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 17:54	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 17:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 17:54	1
Magnesium	<2.5		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 17:54	1
Calcium	0.573	J	2.5	0.50	mg/L		09/14/15 09:30	09/14/15 17:54	1
Manganese	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 17:54	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 17:54	1
Zinc	<0.10		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 17:54	1
Potassium	<2.5		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 17:54	1

**Lab Sample ID: LB2 500-304062/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304289**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1
Barium	<0.50		0.50	0.050	mg/L		09/14/15 09:30	09/14/15 18:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 09:30	09/14/15 18:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 09:30	09/14/15 18:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB2 500-304062/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304289**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.20		0.20	0.20	mg/L		09/14/15 09:30	09/14/15 18:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 09:30	09/14/15 18:17	1
Magnesium	<2.5		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:17	1
Calcium	<2.5		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:17	1
Manganese	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 09:30	09/14/15 18:17	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 09:30	09/14/15 18:17	1
Zinc	<0.10		0.10	0.020	mg/L		09/14/15 09:30	09/14/15 18:17	1
Potassium	<2.5		2.5	0.50	mg/L		09/14/15 09:30	09/14/15 18:17	1

**Lab Sample ID: 500-100833-19 MS**  
**Matrix: Solid**  
**Analysis Batch: 304289**

**Client Sample ID: 2618-7-B92 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Arsenic	<0.050		0.100	0.103		mg/L		103	50 - 150
Barium	0.36	J	0.500	0.772		mg/L		82	50 - 150
Beryllium	<0.0040		0.0500	0.0503		mg/L		101	50 - 150
Cadmium	0.0024	J	0.0500	0.0501		mg/L		95	50 - 150
Chromium	<0.025		0.200	0.195		mg/L		98	50 - 150
Cobalt	0.040		0.500	0.518		mg/L		96	50 - 150
Copper	<0.025		0.250	0.267		mg/L		107	50 - 150
Iron	<0.20		1.00	0.967		mg/L		97	50 - 150
Lead	<0.0075		0.100	0.0989		mg/L		99	50 - 150
Magnesium	300		10.0	334	4	mg/L		305	50 - 150
Manganese	4.1		0.500	4.85	4	mg/L		157	50 - 150
Nickel	0.041		0.500	0.501		mg/L		92	50 - 150
Selenium	<0.050		0.100	0.107		mg/L		107	50 - 150
Silver	<0.025		0.0500	0.0534		mg/L		107	50 - 150
Vanadium	<0.025		0.500	0.525		mg/L		105	50 - 150
Zinc	0.22		0.500	0.504		mg/L		57	50 - 150
Potassium	3.5		10.0	16.6		mg/L		131	50 - 150

**Lab Sample ID: 500-100833-19 MS**  
**Matrix: Solid**  
**Analysis Batch: 304371**

**Client Sample ID: 2618-7-B92 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Calcium	1100		10.0	1190	4	mg/L		750	50 - 150

**Lab Sample ID: 500-100833-19 DU**  
**Matrix: Solid**  
**Analysis Batch: 304289**

**Client Sample ID: 2618-7-B92 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.36	J	0.358	J	mg/L		2	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-19 DU**  
**Matrix: Solid**  
**Analysis Batch: 304289**

**Client Sample ID: 2618-7-B92 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0024	J	0.00227	J	mg/L		7	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.040		0.0394		mg/L		2	20
Copper	<0.025		<0.025		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	300		296		mg/L		2	20
Manganese	4.1		3.97		mg/L		2	20
Nickel	0.041		0.0404		mg/L		2	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.22		0.214		mg/L		3	20
Potassium	3.5		3.37		mg/L		2	20

**Lab Sample ID: 500-100833-19 DU**  
**Matrix: Solid**  
**Analysis Batch: 304371**

**Client Sample ID: 2618-7-B92 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	1100		1050		mg/L		6	20

**Lab Sample ID: LB 500-304198/1-E**  
**Matrix: Solid**  
**Analysis Batch: 304563**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Barium	<0.50		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 11:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 11:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 11:44	1
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 11:44	1
Lead	0.0101		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 11:44	1
Magnesium	1.16	J	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:44	1
Calcium	3.72		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:44	1
Manganese	0.0183	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Nickel	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 11:44	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:44	1
Zinc	0.0469	J	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 11:44	1
Potassium	0.728	J	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:44	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB2 500-304205/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304563**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Barium	<0.50		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 11:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 11:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 11:49	1
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 11:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 11:49	1
Magnesium	1.04	J	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:49	1
Calcium	2.21	J	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:49	1
Manganese	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Nickel	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 11:49	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 11:49	1
Zinc	0.0325	J	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 11:49	1
Potassium	<2.5		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 11:49	1

**Lab Sample ID: 500-100833-31 MS**  
**Matrix: Solid**  
**Analysis Batch: 304563**

**Client Sample ID: 2618-7-B103 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Arsenic	0.010	J	0.100	0.118		mg/L		107	50 - 150
Barium	0.31	J	0.500	0.836		mg/L		105	50 - 150
Beryllium	<0.0040		0.0500	0.0514		mg/L		103	50 - 150
Cadmium	<0.0050		0.0500	0.0556		mg/L		111	50 - 150
Chromium	<0.025		0.200	0.199		mg/L		99	50 - 150
Cobalt	0.012	J	0.500	0.566		mg/L		111	50 - 150
Copper	0.012	J	0.250	0.286		mg/L		110	50 - 150
Iron	<0.20		1.00	0.888		mg/L		89	50 - 150
Lead	<0.0075		0.100	0.103		mg/L		103	50 - 150
Magnesium	480	B	10.0	513	4	mg/L		365	50 - 150
Manganese	2.8		0.500	3.42	4	mg/L		129	50 - 150
Nickel	0.027		0.500	0.558		mg/L		106	50 - 150
Selenium	<0.050		0.100	0.113		mg/L		113	50 - 150
Silver	<0.025		0.0500	0.0560		mg/L		112	50 - 150
Vanadium	<0.025		0.500	0.512		mg/L		102	50 - 150
Zinc	1.0	B F1	0.500	0.835	F1	mg/L		-40	50 - 150
Potassium	1.5	J	10.0	12.0		mg/L		105	50 - 150

**Lab Sample ID: 500-100833-31 MS**  
**Matrix: Solid**  
**Analysis Batch: 304563**

**Client Sample ID: 2618-7-B103 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Calcium	1000	B	10.0	1060	4	mg/L		640	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-31 DU**

**Matrix: Solid**

**Analysis Batch: 304563**

**Client Sample ID: 2618-7-B103 (0-2)**

**Prep Type: TCLP**

**Prep Batch: 304419**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.010	J	<0.050		mg/L		NC	20
Barium	0.31	J	0.316	J	mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.012	J	0.0130	J	mg/L		4	20
Copper	0.012	J	0.0119	J	mg/L		0.5	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	480	B	484		mg/L		1	20
Manganese	2.8		2.82		mg/L		1	20
Nickel	0.027		0.0258		mg/L		3	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	1.0	B F1	1.04		mg/L		0.3	20
Potassium	1.5	J	1.55	J	mg/L		0	20

**Lab Sample ID: 500-100833-31 DU**

**Matrix: Solid**

**Analysis Batch: 304563**

**Client Sample ID: 2618-7-B103 (0-2)**

**Prep Type: TCLP**

**Prep Batch: 304419**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	1000	B	956		mg/L		5	20

**Lab Sample ID: LB 500-304652/1-B**

**Matrix: Solid**

**Analysis Batch: 304723**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 304680**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 09:00	09/17/15 13:28	1

**Lab Sample ID: 500-100833-40 MS**

**Matrix: Solid**

**Analysis Batch: 304723**

**Client Sample ID: 2618-7-B111 (0-2)**

**Prep Type: TCLP**

**Prep Batch: 304680**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Lead	0.0084		0.100	0.106		mg/L		97	50 - 150	

**Lab Sample ID: 500-100833-40 DU**

**Matrix: Solid**

**Analysis Batch: 304723**

**Client Sample ID: 2618-7-B111 (0-2)**

**Prep Type: TCLP**

**Prep Batch: 304680**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	0.0084		0.0104	F5	mg/L		21	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 500-303760/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303916**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Barium	0.0512	J	0.50	0.050	mg/L		09/11/15 09:30	09/11/15 20:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 09:30	09/11/15 20:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 09:30	09/11/15 20:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Copper	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Iron	<0.20		0.20	0.20	mg/L		09/11/15 09:30	09/11/15 20:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/11/15 09:30	09/11/15 20:12	1
Magnesium	1.32	J	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 20:12	1
Calcium	3.63	J	6.0	0.50	mg/L		09/11/15 09:30	09/11/15 20:12	1
Manganese	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 09:30	09/11/15 20:12	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/11/15 09:30	09/11/15 20:12	1
Zinc	0.107	J	0.50	0.020	mg/L		09/11/15 09:30	09/11/15 20:12	1
Potassium	0.630	J	2.5	0.50	mg/L		09/11/15 09:30	09/11/15 20:12	1

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304072**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: SPLP East**  
**Prep Batch: 303916**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.015	J	0.100	0.119		mg/L		104	50 - 150
Barium	0.26	J B	0.500	0.672		mg/L		82	50 - 150
Beryllium	<0.0040		0.0500	0.0540		mg/L		108	50 - 150
Cadmium	<0.0050		0.0500	0.0476		mg/L		95	50 - 150
Chromium	0.043		0.200	0.271		mg/L		114	50 - 150
Cobalt	<0.025		0.500	0.505		mg/L		101	50 - 150
Copper	0.042		0.250	0.302		mg/L		104	50 - 150
Iron	31		1.00	53.8	4	mg/L		2249	50 - 150
Lead	0.047		0.100	0.118		mg/L		71	50 - 150
Magnesium	28	F1 B	10.0	44.3	F1	mg/L		163	50 - 150
Calcium	71	B	10.0	84.5	4	mg/L		138	50 - 150
Manganese	0.21		0.500	0.808		mg/L		119	50 - 150
Nickel	0.038		0.500	0.534		mg/L		99	50 - 150
Selenium	<0.050		0.100	0.0890		mg/L		89	50 - 150
Silver	<0.025		0.0500	0.0497		mg/L		99	50 - 150
Vanadium	0.052		0.500	0.590		mg/L		108	50 - 150
Zinc	0.93	F1 B	0.500	0.673	F1	mg/L		-51	50 - 150
Potassium	13	F1 B	10.0	29.2	F1	mg/L		167	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-1 DU**

**Matrix: Solid**

**Analysis Batch: 304072**

**Client Sample ID: 2618-7-B45 (0-6)**

**Prep Type: SPLP East**

**Prep Batch: 303916**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.015	J	0.0238	J F5	mg/L		45	20
Barium	0.26	J B	0.297	J	mg/L		13	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	0.043		0.0688	F3	mg/L		46	20
Cobalt	<0.025		0.0158	J	mg/L		NC	20
Copper	0.042		0.0656	F5	mg/L		45	20
Iron	31		53.0	F3	mg/L		51	20
Lead	0.047		0.0593	F3	mg/L		22	20
Magnesium	28	F1 B	33.8		mg/L		19	20
Calcium	71	B	71.6		mg/L		1	20
Manganese	0.21		0.292	F3	mg/L		31	20
Nickel	0.038		0.0623	F5	mg/L		49	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.052		0.0789	F3	mg/L		42	20
Zinc	0.93	F1 B	0.976		mg/L		5	20
Potassium	13	F1 B	18.3	F3	mg/L		38	20

**Lab Sample ID: LB 500-303761/1-B**

**Matrix: Solid**

**Analysis Batch: 304074**

**Client Sample ID: Method Blank**

**Prep Type: SPLP East**

**Prep Batch: 303917**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Barium	<0.50		0.50	0.050	mg/L		09/11/15 10:00	09/12/15 02:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/15 10:00	09/12/15 02:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/11/15 10:00	09/12/15 02:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Cobalt	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Copper	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Iron	<0.20		0.20	0.20	mg/L		09/11/15 10:00	09/12/15 02:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/11/15 10:00	09/12/15 02:04	1
Magnesium	<2.5		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:04	1
Calcium	<2.5		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:04	1
Manganese	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/11/15 10:00	09/12/15 02:04	1
Silver	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/11/15 10:00	09/12/15 02:04	1
Zinc	<0.10		0.10	0.020	mg/L		09/11/15 10:00	09/12/15 02:04	1
Potassium	<2.5		2.5	0.50	mg/L		09/11/15 10:00	09/12/15 02:04	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100833-30 MS**

**Matrix: Solid**

**Analysis Batch: 304074**

**Client Sample ID: 2618-7-B102 (0-2)**

**Prep Type: SPLP East**

**Prep Batch: 303917**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	0.093		0.100	0.201		mg/L		108	50 - 150
Barium	0.69		0.500	1.26		mg/L		114	50 - 150
Beryllium	0.0064		0.0500	0.0568		mg/L		101	50 - 150
Cadmium	<0.0050		0.0500	0.0458		mg/L		92	50 - 150
Chromium	0.14		0.200	0.378		mg/L		117	50 - 150
Cobalt	0.076		0.500	0.574		mg/L		100	50 - 150
Copper	0.23		0.250	0.533		mg/L		119	50 - 150
Iron	180		1.00	222	4	mg/L		4202	50 - 150
Lead	0.13		0.100	0.252		mg/L		123	50 - 150
Magnesium	32	F1	10.0	48.0	F1	mg/L		164	50 - 150
Calcium	40		10.0	50.4	4	mg/L		104	50 - 150
Manganese	2.2		0.500	3.12	4	mg/L		187	50 - 150
Nickel	0.19		0.500	0.721		mg/L		105	50 - 150
Selenium	<0.050		0.100	0.0888		mg/L		89	50 - 150
Silver	<0.025		0.0500	0.0500		mg/L		100	50 - 150
Vanadium	0.20		0.500	0.717		mg/L		104	50 - 150
Zinc	2.1		0.500	2.79	4	mg/L		139	50 - 150
Potassium	25	F1	10.0	42.4	F1	mg/L		173	50 - 150

**Lab Sample ID: 500-100833-30 DU**

**Matrix: Solid**

**Analysis Batch: 304074**

**Client Sample ID: 2618-7-B102 (0-2)**

**Prep Type: SPLP East**

**Prep Batch: 303917**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.093		0.0926		mg/L		0	20
Barium	0.69		0.707		mg/L		3	20
Beryllium	0.0064		0.00695		mg/L		9	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	0.14		0.158		mg/L		9	20
Cobalt	0.076		0.0795		mg/L		4	20
Copper	0.23		0.240		mg/L		2	20
Iron	180		188		mg/L		4	20
Lead	0.13		0.129		mg/L		0.9	20
Magnesium	32	F1	33.8		mg/L		7	20
Calcium	40		40.2		mg/L		0.5	20
Manganese	2.2		2.23		mg/L		2	20
Nickel	0.19		0.201		mg/L		3	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.20		0.224		mg/L		12	20
Zinc	2.1		2.11		mg/L		0.7	20
Potassium	25	F1	29.3		mg/L		15	20

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: LCS 500-303916/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303916**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.464		mg/L		93	80 - 120	
Thallium	0.100	0.0932		mg/L		93	80 - 120	

**Lab Sample ID: LCS 500-303917/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303917**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.476		mg/L		95	80 - 120	
Thallium	0.100	0.0951		mg/L		95	80 - 120	

**Lab Sample ID: LCS 500-304045/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304045**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.449		mg/L		90	80 - 120	
Thallium	0.100	0.108		mg/L		108	80 - 120	

**Lab Sample ID: LCS 500-304146/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304146**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.436		mg/L		87	80 - 120	
Thallium	0.100	0.105		mg/L		105	80 - 120	

**Lab Sample ID: LCS 500-304419/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304419**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.502		mg/L		100	80 - 120	
Thallium	0.100	0.112		mg/L		112	80 - 120	

**Lab Sample ID: LB 500-303962/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:03	1

**Lab Sample ID: LB2 500-303963/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 10:04	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: LB2 500-303963/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 10:04	1

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Antimony	<0.0060		0.500	0.435		mg/L		87	50 - 150
Thallium	<0.0020		0.100	0.110		mg/L		110	50 - 150

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: TCLP**  
**Prep Batch: 304045**

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: LB 500-304061/1-D**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:31	1

**Lab Sample ID: LB2 500-304062/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 09:30	09/15/15 10:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 09:30	09/15/15 10:32	1

**Lab Sample ID: 500-100833-19 MS**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B92 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Antimony	<0.0060		0.500	0.429		mg/L		86	50 - 150
Thallium	<0.0020		0.100	0.111		mg/L		111	50 - 150

**Lab Sample ID: 500-100833-19 DU**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B92 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304146**

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: LB 500-304198/1-E**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:43	1

**Lab Sample ID: LB2 500-304205/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:48	1

**Lab Sample ID: 500-100833-31 MS**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: 2618-7-B103 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.494		mg/L		99	50 - 150
Thallium	<0.0020		0.100	0.123		mg/L		123	50 - 150

**Lab Sample ID: 500-100833-31 DU**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: 2618-7-B103 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304419**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: LB 500-303760/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303916**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 09:30	09/15/15 13:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 09:30	09/15/15 13:04	1

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: SPLP East**  
**Prep Batch: 303916**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.337		mg/L		67	50 - 150
Thallium	<0.0020		0.100	0.0963		mg/L		96	50 - 150

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: SPLP East**  
**Prep Batch: 303916**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: SPLP East**  
**Prep Batch: 303916**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: LB 500-303761/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303917**

Analyte	LB		RL	MDL		Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Result	Qualifier					
Antimony	<0.0060		0.0060	0.0060	mg/L		09/11/15 10:00	09/15/15 13:32	1	
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/15 10:00	09/15/15 13:32	1	

**Lab Sample ID: 500-100833-30 MS**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B102 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303917**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060	F1	0.500	0.105	F1	mg/L		21	50 - 150
Thallium	0.0034		0.100	0.0886		mg/L		85	50 - 150

**Lab Sample ID: 500-100833-30 DU**  
**Matrix: Solid**  
**Analysis Batch: 304382**

**Client Sample ID: 2618-7-B102 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303917**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060	F1	<0.0060		mg/L		NC	20
Thallium	0.0034		0.00364		mg/L		8	20

## Method: 7470A - TCLP Mercury

**Lab Sample ID: MB 500-304181/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304181**

Analyte	MB		RL	MDL		Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Result	Qualifier					
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:09	1	

**Lab Sample ID: LCS 500-304181/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304181**

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00210		mg/L		105	80 - 120

**Lab Sample ID: MB 500-304182/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304182**

Analyte	MB		RL	MDL		Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Result	Qualifier					
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:06	1	

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 7470A - TCLP Mercury (Continued)

**Lab Sample ID: LCS 500-304182/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304182**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00170		mg/L		85	80 - 120

**Lab Sample ID: MB 500-304413/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304413**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:07	1

**Lab Sample ID: LCS 500-304413/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304413**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00207		mg/L		104	80 - 120

**Lab Sample ID: LB 500-303962/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304181**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:13	1

**Lab Sample ID: LB2 500-303963/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304181**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 09:15	1

**Lab Sample ID: 500-100833-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: 2618-7-B45 (6-13)**  
**Prep Type: TCLP**  
**Prep Batch: 304181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00102		mg/L		102	50 - 150

**Lab Sample ID: 500-100833-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: 2618-7-B45 (6-13)**  
**Prep Type: TCLP**  
**Prep Batch: 304181**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

**Lab Sample ID: LB 500-304061/1-E**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304182**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:10	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Lab Sample ID: LB2 500-304062/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304182**

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 10:12	1

**Lab Sample ID: 500-100833-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: 2618-7-B95 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304182**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.000914		mg/L		91	50 - 150

**Lab Sample ID: 500-100833-22 DU**  
**Matrix: Solid**  
**Analysis Batch: 304373**

**Client Sample ID: 2618-7-B95 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304182**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Mercury	<0.00020		<0.00020		mg/L		NC	20

**Lab Sample ID: LB 500-304198/1-D**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304413**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:09	1

**Lab Sample ID: LB2 500-304205/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304413**

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 09:11	1

**Lab Sample ID: 500-100833-32 MS**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: 2618-7-B104 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304413**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.000961		mg/L		96	50 - 150

**Lab Sample ID: 500-100833-32 DU**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: 2618-7-B104 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304413**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Mercury	<0.00020		<0.00020		mg/L		NC	20

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-303984/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303984**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:12	1

**Lab Sample ID: LCS 500-303984/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303984**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00182		mg/L		91	80 - 120

**Lab Sample ID: MB 500-303985/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303985**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:09	1

**Lab Sample ID: LCS 500-303985/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303985**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00213		mg/L		106	80 - 120

**Lab Sample ID: LB 500-303760/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303984**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 11:16	1

**Lab Sample ID: 500-100833-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B45 (6-13)**  
**Prep Type: SPLP East**  
**Prep Batch: 303984**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000760		mg/L		76	50 - 150

**Lab Sample ID: 500-100833-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B45 (6-13)**  
**Prep Type: SPLP East**  
**Prep Batch: 303984**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

**Lab Sample ID: LB 500-303761/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 303985**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/15 19:15	09/14/15 12:13	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Lab Sample ID: 500-100833-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B95 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303985**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00127		mg/L		127	50 - 150

**Lab Sample ID: 500-100833-22 DU**  
**Matrix: Solid**  
**Analysis Batch: 304163**

**Client Sample ID: 2618-7-B95 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 303985**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 500-303690/12-A**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg		09/10/15 15:00	09/11/15 14:20	1

**Lab Sample ID: LCS 500-303690/13-A**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.183		mg/Kg		109	80 - 120

**Lab Sample ID: 500-100833-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.015	J	0.0828	0.100		mg/Kg	☼	103	75 - 125

**Lab Sample ID: 500-100833-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.015	J	0.0933	0.112		mg/Kg	☼	104	75 - 125	11	20

**Lab Sample ID: 500-100833-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: 2618-7-B45 (0-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303690**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.015	J	0.0193	F5	mg/Kg	☼	26	20

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 7471B - Mercury (CVAA) (Continued)

**Lab Sample ID: MB 500-303696/12-A**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303696**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg		09/10/15 15:00	09/11/15 15:20	1

**Lab Sample ID: LCS 500-303696/13-A**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303696**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.178		mg/Kg		106	80 - 120

**Lab Sample ID: 500-100833-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: 2618-7-B94 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303696**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.029		0.0923	0.120		mg/Kg	☼	99	75 - 125

**Lab Sample ID: 500-100833-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: 2618-7-B94 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303696**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.029		0.0844	0.110		mg/Kg	☼	96	75 - 125	9	20

**Lab Sample ID: 500-100833-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 303974**

**Client Sample ID: 2618-7-B94 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303696**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.029		0.0264		mg/Kg	☼	9	20

## Method: 9014 - Cyanide

**Lab Sample ID: MB 500-303611/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303634**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303611**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/09/15 21:40	09/09/15 23:35	1

**Lab Sample ID: LCS 500-303611/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303634**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303611**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.47		mg/Kg		109	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 9014 - Cyanide (Continued)

**Lab Sample ID: MB 500-303710/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303799**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303710**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/10/15 12:20	09/10/15 14:35	1

**Lab Sample ID: LCS 500-303710/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303799**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303710**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.32		mg/Kg		106	80 - 120

**Lab Sample ID: 500-100833-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 303799**

**Client Sample ID: 2618-7-B46 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.53		2.11	2.18		mg/Kg	☼	103	75 - 125

**Lab Sample ID: 500-100833-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303799**

**Client Sample ID: 2618-7-B46 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.53		2.11	2.27		mg/Kg	☼	107	75 - 125	4	20

**Lab Sample ID: MB 500-303720/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303803**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303720**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/10/15 14:15	09/10/15 16:30	1

**Lab Sample ID: LCS 500-303720/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303803**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303720**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.14		mg/Kg		103	80 - 120

**Lab Sample ID: 500-100833-36 MS**  
**Matrix: Solid**  
**Analysis Batch: 303803**

**Client Sample ID: 2618-7-B108 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.49		1.97	1.96		mg/Kg	☼	100	75 - 125

**Lab Sample ID: 500-100833-36 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303803**

**Client Sample ID: 2618-7-B108 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.49		1.97	2.08		mg/Kg	☼	105	75 - 125	6	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

## Method: 9045D - pH

Lab Sample ID: 500-100833-16 DU  
Matrix: Solid  
Analysis Batch: 303885

Client Sample ID: 2618-7-B89 (0-2)  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.08		9.050		SU		0.3	

Lab Sample ID: 500-100833-26 DU  
Matrix: Solid  
Analysis Batch: 303885

Client Sample ID: 2618-7-B98 (0-2)  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.47		8.480		SU		0.1	

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

**Date Collected: 09/03/15 11:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 20:41	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 12:50	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 17:58	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:07	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:06	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:18	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:41		
					(End)	09/10/15 16:45		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

**Date Collected: 09/03/15 11:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303390	09/09/15 10:38	JMP	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/10/15 23:16	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 03:41	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 01:21	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 01:45	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:24	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (0-6)**

**Lab Sample ID: 500-100833-1**

**Date Collected: 09/03/15 11:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	303634	09/09/15 23:43	ELR	TAL CHI
					(Start)	09/09/15 23:43		
					(End)	09/09/15 23:43		

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 21:08	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:10	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 18:25	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:11	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:11	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:20	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	09/10/15 16:45	SMO	TAL CHI
					(Start)	09/10/15 16:45		
					(End)	09/10/15 16:49		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303390	09/09/15 11:04	JMP	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/11/15 22:54	TNW	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B45 (6-13)**

**Lab Sample ID: 500-100833-2**

**Date Collected: 09/03/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 04:31	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		5	303664	09/10/15 02:12	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:33	MJD	TAL CHI
Total/NA	Prep	9010B			303611	09/09/15 21:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	303634		ELR	TAL CHI
					(Start)	09/09/15 23:43		
					(End)	09/09/15 23:44		

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 21:15	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:15	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 18:29	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:12	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:12	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:26	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:25	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:49		
					(End)	09/10/15 16:54		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B46 (0-2)**

**Lab Sample ID: 500-100833-3**

**Date Collected: 09/03/15 11:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 87.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303390	09/09/15 11:29	JMP	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/11/15 23:20	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 04:37	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 02:20	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 02:25	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:34	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799	09/10/15 14:36	ELR	TAL CHI
					(Start)	09/10/15 14:36		
					(End)	09/10/15 14:36		

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 21:22	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:20	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:13	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:13	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:28	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	09/10/15 16:54	SMO	TAL CHI
					(Start)	09/10/15 16:54		
					(End)	09/10/15 16:58		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B47 (0-2)**

**Lab Sample ID: 500-100833-4**

**Date Collected: 09/03/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303390	09/09/15 11:54	JMP	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/11/15 23:46	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 04:44	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 02:29	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:41	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:37		
					(End)	09/10/15 14:37		

**Client Sample ID: 2618-7-B48 (0-2)**

**Lab Sample ID: 500-100833-5**

**Date Collected: 09/03/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 21:28	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:32	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 18:37	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:14	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:14	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:34	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:33	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 16:58		
					(End)	09/10/15 17:03		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B48 (0-2)**

**Date Collected: 09/03/15 10:45**

**Date Received: 09/04/15 09:30**

**Lab Sample ID: 500-100833-5**

**Matrix: Solid**

**Percent Solids: 84.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 15:52	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/10/15 23:43	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 04:51	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 02:34	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 02:39	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:43	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:37		
					(End)	09/10/15 14:37		

**Client Sample ID: 2618-7-B49 (0-2)**

**Date Collected: 09/03/15 10:30**

**Date Received: 09/04/15 09:30**

**Lab Sample ID: 500-100833-6**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 21:35	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:37	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:15	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:15	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:36	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:03		
					(End)	09/10/15 17:07		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B49 (0-2)**

**Lab Sample ID: 500-100833-6**

**Date Collected: 09/03/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 16:17	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 02:49	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 04:58	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 02:43	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:45	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:37		
					(End)	09/10/15 14:38		

**Client Sample ID: 2618-7-B50 (0-2)**

**Lab Sample ID: 500-100833-7**

**Date Collected: 09/03/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 21:42	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:41	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:18	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:15	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:38	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:07		
					(End)	09/10/15 17:11		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 (0-2)**

**Lab Sample ID: 500-100833-7**

**Date Collected: 09/03/15 10:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 16:42	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 03:16	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 05:04	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 02:55	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:47	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:38		
					(End)	09/10/15 14:38		

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

**Date Collected: 09/03/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:05	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:45	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:19	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:16	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:40	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:11		
					(End)	09/10/15 17:16		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B50 DUP (0-2)**

**Lab Sample ID: 500-100833-8**

**Date Collected: 09/03/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 17:07	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 01:57	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 05:11	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:00	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 03:05	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:49	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:38		
					(End)	09/10/15 14:38		

**Client Sample ID: 2618-7-B51 (0-2)**

**Lab Sample ID: 500-100833-9**

**Date Collected: 09/03/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:11	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:49	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:20	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:17	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:42	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:16		
					(End)	09/10/15 17:20		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B51 (0-2)**

**Lab Sample ID: 500-100833-9**

**Date Collected: 09/03/15 10:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 17:32	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 01:31	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 05:34	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:09	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:52	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:39		
					(End)	09/10/15 14:39		

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

**Date Collected: 09/03/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:18	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:53	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:21	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:18	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:44	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:20		
					(End)	09/10/15 17:25		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B52 (0-2)**

**Lab Sample ID: 500-100833-10**

**Date Collected: 09/03/15 09:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 77.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 17:57	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 00:09	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 05:41	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:14	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:54	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:39		
					(End)	09/10/15 14:40		

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

**Date Collected: 09/03/15 09:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:25	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 13:57	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:22	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:22	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:45	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:25		
					(End)	09/10/15 17:29		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B53 (0-2)**

**Lab Sample ID: 500-100833-11**

**Date Collected: 09/03/15 09:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 18:22	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		5	304240	09/15/15 04:59	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 05:47	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:19	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:56	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:40		
					(End)	09/10/15 14:40		

**Client Sample ID: 2618-7-B54 (0-2)**

**Lab Sample ID: 500-100833-12**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:32	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:02	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:22	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:23	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:47	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:29		
					(End)	09/10/15 17:33		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B54 (0-2)**

**Lab Sample ID: 500-100833-12**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 18:47	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 03:42	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 05:54	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:24	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:58	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:40		
					(End)	09/10/15 14:40		

**Client Sample ID: 2618-7-B55 (0-2)**

**Lab Sample ID: 500-100833-13**

**Date Collected: 09/03/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:38	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:07	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 18:41	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:23	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:24	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:49	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:33		
					(End)	09/10/15 17:38		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B55 (0-2)**

**Lab Sample ID: 500-100833-13**

**Date Collected: 09/03/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 19:12	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 00:36	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 06:01	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:28	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 03:33	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 14:59	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:40		
					(End)	09/10/15 14:40		

**Client Sample ID: 2618-7-B56 (0-2)**

**Lab Sample ID: 500-100833-14**

**Date Collected: 09/03/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:45	PJ1	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:12	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:24	PFK	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:24	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:51	MJD	TAL CHI
TCLP	Leach	1311			303962	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:38		
					(End)	09/10/15 17:42		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B56 (0-2)**

**Lab Sample ID: 500-100833-14**

**Date Collected: 09/03/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 19:37	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 00:12	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 06:08	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:37	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:06	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:40		
					(End)	09/10/15 14:41		

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

**Date Collected: 09/03/15 17:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:52	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:23	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 18:45	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:25	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:25	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:57	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:56	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:42		
					(End)	09/10/15 17:47		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B88 (0-2)**

**Lab Sample ID: 500-100833-15**

**Date Collected: 09/03/15 17:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 20:02	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 02:23	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 06:15	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:49	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:07	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799	09/10/15 14:41	ELR	TAL CHI
					(Start)	09/10/15 14:41		
					(End)	09/10/15 14:41		

**Client Sample ID: 2618-7-B89 (0-2)**

**Lab Sample ID: 500-100833-16**

**Date Collected: 09/03/15 17:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 22:59	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:28	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:26	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:26	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 11:59	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 09:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	09/10/15 17:47	SMO	TAL CHI
					(Start)	09/10/15 17:47		
					(End)	09/10/15 17:51		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B89 (0-2)**

**Lab Sample ID: 500-100833-16**

**Date Collected: 09/03/15 17:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 20:28	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 01:02	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 06:21	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:54	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:10	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:41		
					(End)	09/10/15 14:41		

**Client Sample ID: 2618-7-B90 (0-2)**

**Lab Sample ID: 500-100833-17**

**Date Collected: 09/03/15 17:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 23:05	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:32	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 18:49	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:29	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:27	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:01	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 17:55		
					(End)	09/10/15 18:00		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B90 (0-2)**

**Date Collected: 09/03/15 17:20**

**Date Received: 09/04/15 09:30**

**Lab Sample ID: 500-100833-17**

**Matrix: Solid**

**Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 20:53	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 01:29	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 06:28	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 03:59	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 04:04	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:11	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:41		
					(End)	09/10/15 14:42		

**Client Sample ID: 2618-7-B91 (0-2)**

**Date Collected: 09/03/15 17:10**

**Date Received: 09/04/15 09:30**

**Lab Sample ID: 500-100833-18**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 23:28	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:37	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 18:53	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:30	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:28	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:03	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:02	MJD	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 18:00		
					(End)	09/10/15 18:04		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

**Client Sample ID: 2618-7-B91 (0-2)**

**Lab Sample ID: 500-100833-18**

**Date Collected: 09/03/15 17:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 21:18	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 01:55	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 06:35	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 04:08	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 04:14	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:13	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:42		
					(End)	09/10/15 14:42		

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

**Date Collected: 09/03/15 16:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 23:35	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 18:30	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		10	304371	09/15/15 14:31	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:30	PFK	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

**Date Collected: 09/03/15 16:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:34	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:05	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:14	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 18:04		
					(End)	09/10/15 18:09		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

**Client Sample ID: 2618-7-B92 (0-2)**

**Lab Sample ID: 500-100833-19**

**Date Collected: 09/03/15 16:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 21:43	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 02:22	BJH	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 06:58	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 04:18	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	303664	09/10/15 04:23	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:15	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:43		
					(End)	09/10/15 14:43		

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6010B		1	304072	09/11/15 23:42	PJ1	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		1	304285	09/14/15 14:43	PJ1	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6010B		10	304456	09/15/15 19:08	PJ1	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303916	09/11/15 09:30	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:31	PFK	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	3010A			304045	09/13/15 18:10	PJH	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:29	PFK	TAL CHI
SPLP East	Leach	1312			303760	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303984	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:07	MJD	TAL CHI
TCLP	Leach	1311			303963	09/11/15 16:00	FXG	TAL CHI
TCLP	Prep	7470A			304181	09/14/15 19:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 18:09		
					(End)	09/10/15 18:13		
Total/NA	Analysis	Moisture		1	303186	09/04/15 17:53	LWN	TAL CHI

**Client Sample ID: 2618-7-B93 (0-2)**

**Lab Sample ID: 500-100833-20**

**Date Collected: 09/03/15 16:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303249	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 22:08	BDW	TAL CHI
Total/NA	Prep	3541			303468	09/09/15 07:26	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 01:05	TNW	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303498	09/09/15 07:04	PJ1	TAL CHI
Total/NA	Prep	3050B			303362	09/08/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	303664	09/10/15 04:27	PJ1	TAL CHI
Total/NA	Prep	7471B			303690	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:18	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:43		
					(End)	09/10/15 14:43		

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B94 (0-2)**

**Lab Sample ID: 500-100833-21**

**Date Collected: 09/03/15 16:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 02:17	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 18:57	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:34	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:38	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:15	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 18:13		
					(End)	09/10/15 18:17		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B94 (0-2)**

**Lab Sample ID: 500-100833-21**

**Date Collected: 09/03/15 16:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 22:33	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 14:51	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303871	09/10/15 22:22	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 18:33	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 17:30	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:43		
					(End)	09/10/15 14:44		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 (0-2)**

**Lab Sample ID: 500-100833-22**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 02:24	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 19:04	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:35	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:39	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:21	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 15:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 18:17		
					(End)	09/10/15 18:22		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B95 (0-2)**

**Lab Sample ID: 500-100833-22**

**Date Collected: 09/03/15 16:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 22:58	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 15:19	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303871	09/10/15 22:56	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 18:53	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:36	MJD	TAL CHI
Total/NA	Prep	9010B			303710	09/10/15 12:20	ELR	TAL CHI
Total/NA	Analysis	9014		1	303799		ELR	TAL CHI
					(Start)	09/10/15 14:44		
					(End)	09/10/15 14:44		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

**Date Collected: 09/03/15 16:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 02:31	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 19:11	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:36	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:40	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:26	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 18:48		
					(End)	09/10/15 18:53		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B95 DUP (0-2)**

**Lab Sample ID: 500-100833-23**

**Date Collected: 09/03/15 16:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 23:23	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 15:47	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	303871	09/10/15 23:02	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 19:04	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:38	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:31		
					(End)	09/10/15 16:31		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

**Date Collected: 09/03/15 16:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 02:37	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 19:18	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:37	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:43	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:28	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	(Start) 09/10/15 18:53 (End) 09/10/15 18:57	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B96 (0-2)**

**Lab Sample ID: 500-100833-24**

**Date Collected: 09/03/15 16:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/09/15 23:48	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 16:14	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 19:08	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 19:13	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:40	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803	(Start) 09/10/15 16:31 (End) 09/10/15 16:31	ELR	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

**Date Collected: 09/03/15 15:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 02:44	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 19:40	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		10	304371	09/15/15 14:47	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:40	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:44	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:30	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 18:57		
					(End)	09/10/15 19:02		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B97 (0-2)**

**Lab Sample ID: 500-100833-25**

**Date Collected: 09/03/15 15:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303466	09/10/15 00:13	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 16:42	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 19:17	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 19:22	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:42	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:31		
					(End)	09/10/15 16:32		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 02:51	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 19:47	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		10	304371	09/15/15 14:51	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:41	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:45	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:32	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:41	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:02		
					(End)	09/10/15 19:06		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 11:48	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 17:10	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 19:26	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 19:31	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:44	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B98 (0-2)**

**Lab Sample ID: 500-100833-26**

**Date Collected: 09/03/15 15:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	303803	09/10/15 16:32 (Start) 09/10/15 16:32 (End)	ELR	TAL CHI

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

**Date Collected: 09/03/15 15:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 02:58	PJ1	TAL CHI
TCLP	Leach	1311			304061	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 19:54	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:42	PFK	TAL CHI
TCLP	Leach	1311			304061	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:46	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:34	MJD	TAL CHI
TCLP	Leach	1311			304061	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:43	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	09/10/15 19:10 (Start) 09/10/15 19:15 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

**Date Collected: 09/03/15 15:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 12:13	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 17:38	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 19:36	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B99 (0-2)**

**Lab Sample ID: 500-100833-27**

**Date Collected: 09/03/15 15:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	303974	09/11/15 15:46	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803	(Start) 09/10/15 16:32 (End) 09/10/15 16:32	ELR	TAL CHI

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

**Date Collected: 09/03/15 14:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 03:04	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 20:01	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:43	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:47	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:36	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:45	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	(Start) 09/10/15 19:15 (End) 09/10/15 19:19	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

**Date Collected: 09/03/15 14:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 12:38	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303966	09/12/15 04:08	TNW	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B100 (0-2)**

**Lab Sample ID: 500-100833-28**

**Date Collected: 09/03/15 14:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	304083	09/11/15 19:44	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304279	09/14/15 14:15	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:49	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:32		
					(End)	09/10/15 16:33		

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

**Date Collected: 09/03/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 03:27	PJ1	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 20:07	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:44	PFK	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:48	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:38	MJD	TAL CHI
TCLP	Leach	1311			304062	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 10:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:19		
					(End)	09/10/15 19:24		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

**Date Collected: 09/03/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B101 (0-2)**

**Lab Sample ID: 500-100833-29**

**Date Collected: 09/03/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	303640	09/10/15 13:03	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 18:05	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 19:57	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:55	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:33		
					(End)	09/10/15 16:33		

**Client Sample ID: 2618-7-B102 (0-2)**

**Lab Sample ID: 500-100833-30**

**Date Collected: 09/03/15 14:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 03:34	PJ1	TAL CHI
TCLP	Leach	1311			304061	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304289	09/14/15 20:14	PJ1	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:45	PFK	TAL CHI
TCLP	Leach	1311			304061	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304146	09/14/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304382	09/15/15 10:49	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:44	MJD	TAL CHI
TCLP	Leach	1311			304061	09/13/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304182	09/14/15 16:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	304373	09/15/15 11:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:24		
					(End)	09/10/15 19:28		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B102 (0-2)**

**Lab Sample ID: 500-100833-30**

**Date Collected: 09/03/15 14:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 13:28	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 18:33	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 20:05	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:57	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:33		
					(End)	09/10/15 16:33		

**Client Sample ID: 2618-7-B103 (0-2)**

**Lab Sample ID: 500-100833-31**

**Date Collected: 09/03/15 14:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 04:01	PJ1	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 11:58	KML	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		10	304563	09/16/15 14:13	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:48	PFK	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 10:52	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:46	MJD	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:28		
					(End)	09/10/15 19:32		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B103 (0-2)**

**Lab Sample ID: 500-100833-31**

**Date Collected: 09/03/15 14:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 13:54	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 19:01	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 20:09	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 20:14	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 15:59	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:34		
					(End)	09/10/15 16:34		

**Client Sample ID: 2618-7-B104 (0-2)**

**Lab Sample ID: 500-100833-32**

**Date Collected: 09/03/15 14:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 04:08	PJ1	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 12:16	KML	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		10	304563	09/16/15 14:36	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:53	PFK	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 10:58	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:48	MJD	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:15	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:32		
					(End)	09/10/15 19:37		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B104 (0-2)**

**Lab Sample ID: 500-100833-32**

**Date Collected: 09/03/15 14:15**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 14:19	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 19:29	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 20:18	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 20:23	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:01	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:34		
					(End)	09/10/15 16:35		

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

**Date Collected: 09/03/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 04:15	PJ1	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 12:21	KML	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		10	304563	09/16/15 14:40	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:54	PFK	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:00	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:50	MJD	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:21	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:37		
					(End)	09/10/15 19:41		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

**Date Collected: 09/03/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B105 (0-2)**

**Lab Sample ID: 500-100833-33**

**Date Collected: 09/03/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 14:43	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 19:56	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 20:27	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 20:32	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:03	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:35		
					(End)	09/10/15 16:35		

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

**Date Collected: 09/03/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 04:21	PJ1	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 13:11	KML	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		10	304563	09/16/15 14:44	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:55	PFK	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:02	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

**Date Collected: 09/03/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Analysis	7470A		1	304163	09/14/15 12:52	MJD	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:23	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	(Start) 09/10/15 19:41 (End) 09/10/15 19:46	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B106 (0-2)**

**Lab Sample ID: 500-100833-34**

**Date Collected: 09/03/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 15:09	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	304240	09/15/15 06:44	TNW	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 20:36	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:05	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803	(Start) 09/10/15 16:35 (End) 09/10/15 16:35	ELR	TAL CHI

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

**Date Collected: 09/03/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 04:28	PJ1	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 13:23	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:56	PFK	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:03	PFK	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

**Date Collected: 09/03/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:54	MJD	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:28	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:46		
					(End)	09/10/15 19:50		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B107 (0-2)**

**Lab Sample ID: 500-100833-35**

**Date Collected: 09/03/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 15:34	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 20:24	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 20:52	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304279	09/14/15 13:47	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:07	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:35		
					(End)	09/10/15 16:35		

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

**Date Collected: 09/03/15 13:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 04:51	PJ1	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 13:28	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

**Date Collected: 09/03/15 13:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Analysis	6020A		1	304382	09/15/15 13:57	PFK	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:10	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:56	MJD	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:30	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:50		
					(End)	09/10/15 19:54		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B108 (0-2)**

**Lab Sample ID: 500-100833-36**

**Date Collected: 09/03/15 13:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 96.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 15:59	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		1	303888	09/11/15 20:51	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 21:01	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304279	09/14/15 13:51	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:09	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:35		
					(End)	09/10/15 16:36		

**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

**Date Collected: 09/03/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 04:58	PJ1	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

**Date Collected: 09/03/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 13:33	KML	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		10	304563	09/16/15 14:48	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:58	PFK	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:12	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 12:58	MJD	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:54		
					(End)	09/10/15 19:59		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B109 (0-2)**

**Lab Sample ID: 500-100833-37**

**Date Collected: 09/03/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 89.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 16:24	BDW	TAL CHI
Total/NA	Prep	3541			303467	09/09/15 07:17	STW	TAL CHI
Total/NA	Analysis	8270D		5	304240	09/15/15 07:10	TNW	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 21:09	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 21:14	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304279	09/14/15 13:56	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:11	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:36		
					(End)	09/10/15 16:37		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 05:04	PJ1	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 13:38	KML	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		10	304563	09/16/15 14:52	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 13:59	PFK	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:13	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 13:00	MJD	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:34	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 19:59		
					(End)	09/10/15 20:03		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 16:49	BDW	TAL CHI
Total/NA	Prep	3541			303651	09/10/15 07:29	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 03:15	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 21:18	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 21:23	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304279	09/14/15 14:01	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:13	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 (0-2)**

**Lab Sample ID: 500-100833-38**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	303803	09/10/15 16:37 (Start) 09/10/15 16:37 (End)	ELR	TAL CHI

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

**Date Collected: 09/03/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 05:11	PJ1	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 13:43	KML	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		10	304563	09/16/15 14:56	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 14:00	PFK	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:15	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 13:02	MJD	TAL CHI
TCLP	Leach	1311			304205	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:36	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885	09/10/15 20:03 (Start) 09/10/15 20:08 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

**Date Collected: 09/03/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 17:14	BDW	TAL CHI
Total/NA	Prep	3541			303651	09/10/15 07:29	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 03:41	BJH	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B110 DUP (0-2)**

**Lab Sample ID: 500-100833-39**

**Date Collected: 09/03/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 21:27	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304083	09/11/15 21:39	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304279	09/14/15 14:06	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:21	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:38		
					(End)	09/10/15 16:38		

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6010B		1	304074	09/12/15 05:18	PJ1	TAL CHI
TCLP	Leach	1311			304652	09/16/15 14:35	FXG	TAL CHI
TCLP	Prep	3010A			304680	09/17/15 09:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304723	09/17/15 13:41	KML	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6010B		1	304563	09/16/15 13:48	KML	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			303917	09/11/15 10:00	JML	TAL CHI
SPLP East	Analysis	6020A		1	304382	09/15/15 14:01	PFK	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	3010A			304419	09/15/15 17:00	PJH	TAL CHI
TCLP	Analysis	6020A		1	304528	09/16/15 11:16	PFK	TAL CHI
SPLP East	Leach	1312			303761	09/10/15 16:00	FXG	TAL CHI
SPLP East	Prep	7470A			303985	09/11/15 19:15	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304163	09/14/15 13:08	MJD	TAL CHI
TCLP	Leach	1311			304198	09/14/15 16:35	FXG	TAL CHI
TCLP	Prep	7470A			304413	09/15/15 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304547	09/16/15 09:38	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 20:08		
					(End)	09/10/15 20:12		
Total/NA	Analysis	Moisture		1	303190	09/04/15 18:16	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100833-1

**Client Sample ID: 2618-7-B111 (0-2)**

**Lab Sample ID: 500-100833-40**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303250	09/04/15 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	303640	09/10/15 17:39	BDW	TAL CHI
Total/NA	Prep	3541			303651	09/10/15 07:29	STW	TAL CHI
Total/NA	Analysis	8270D		1	303768	09/11/15 02:48	BJH	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304083	09/11/15 21:43	PJ1	TAL CHI
Total/NA	Prep	3050B			303585	09/09/15 16:07	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304279	09/14/15 14:11	PJ1	TAL CHI
Total/NA	Prep	7471B			303696	09/10/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	303974	09/11/15 16:23	MJD	TAL CHI
Total/NA	Prep	9010B			303720	09/10/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	303803		ELR	TAL CHI
					(Start)	09/10/15 16:38		
					(End)	09/10/15 16:38		

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: Matt Weiss Contact: \_\_\_\_\_  
 Company: Terracon Company: \_\_\_\_\_  
 Address: 135 Ambassador Dr. Address: \_\_\_\_\_  
 Address: Naperville, IL 60540 Address: \_\_\_\_\_  
 Phone: 630-717-4263 Phone: \_\_\_\_\_  
 Fax: 630-357-9489 Fax: \_\_\_\_\_  
 E-Mail: Matt.Weiss@terracon.com PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100833

Chain of Custody Number: \_\_\_\_\_

Page 2,3,3,6,3,0,4,0,3,3,3,1 of \_\_\_\_\_  
 Temperature °C of Cooler: 2,7,2,5,2,8

Client		Client Project #		Preservative		Parameter		Total 24 Inorganics		TCLP 24 Inorganics		SPLP 24 Inorganics		pH		Preservative Key	
Project Name		11157108														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab Project #															
<u>Hoffman Estates, IL</u>																	
Sampler		Lab PM															
<u>Chad Kelly</u>																	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	pH	Comments				
			Date	Time													
1		2618-7-B45 (0-6)	9/3/15	11:20	6	S	✓	✓	✓	✓	✓	✓					
2		2618-7-B45 (6-13)	9/3/15	11:25	6	S	✓	✓	✓	✓	✓	✓					
3		2618-7-B46 (0-2)	9/3/15	11:10	6	S	✓	✓	✓	✓	✓	✓					
4		2618-7-B47 (0-2)	9/3/15	10:55	6	S	✓	✓	✓	✓	✓	✓					
5		2618-7-B48 (0-2)	9/3/15	10:45	6	S	✓	✓	✓	✓	✓	✓					
6		2618-7-B49 (0-2)	9/3/15	10:30	6	S	✓	✓	✓	✓	✓	✓					
7		2618-7-B50 (0-2)	9/3/15	10:15	6	S	✓	✓	✓	✓	✓	✓					
8		2618-7-B50 Dup (0-2)	9/3/15	10:20	6	S	✓	✓	✓	✓	✓	✓					
9		2618-7-B51 (0-2)	9/3/15	10:00	6	S	✓	✓	✓	✓	✓	✓					
10		2618-7-B52 (0-2)	9/3/15	9:50	6	S	✓	✓	✓	✓	✓	✓					

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other \_\_\_\_\_  
 Sample Disposal:  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Chad Kelly</u>	Company: <u>Terracon</u>	Date: <u>9/4/15</u>	Time: <u>810</u>	Received By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>0810</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>0930</u>	Received By: <u>Shawn Smith</u>	Company: <u>TA-CAP</u>	Date: <u>9/4/15</u>	Time: <u>0930</u>	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: Meet IL TACO Requirements, please do not run aluminum for Total/TCLP/SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: Matt Weiss Contact: \_\_\_\_\_  
 Company: Terracon Company: \_\_\_\_\_  
 Address: 135 Ambassador Dr. Address: \_\_\_\_\_  
 Address: Mareville, IL 60540 Address: \_\_\_\_\_  
 Phone: 630-777-4267 Phone: \_\_\_\_\_  
 Fax: 630-357-9489 Fax: \_\_\_\_\_  
 E-Mail: matt.weiss@terracon.com PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100833  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
Project Name		Lab Project #		Parameter		Parameter												1. HCL, Cool to 4°	
Project Location/State		Lab Project #		Parameter		Parameter												2. H2SO4, Cool to 4°	
Sampler		Lab PM		Parameter		Parameter												3. HNO3, Cool to 4°	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix												4. NaOH, Cool to 4°	
11		2618-7-B53 (0-2)	9/3/15	9:35	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5. NaOH/Zn, Cool to 4°	
12		2618-7-B54 (0-2)	9/3/15	9:25	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6. NaHSO4	
13		2618-7-B55 (0-2)	9/3/15	9:15	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7. Cool to 4°	
14		2618-7-B56 (0-2)	9/3/15	9:05	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8. None	
15		2618-7-B88 (0-2)	9/3/15	5:40	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9. Other	
16		2618-7-B89 (0-2)	9/3/15	5:30	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
17		2618-7-B90 (0-2)	9/3/15	5:20	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
18		2618-7-B91 (0-2)	9/3/15	5:10	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
19		2618-7-B92 (0-2)	9/3/15	4:55	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
20		2618-7-B93 (0-2)	9/3/15	4:45	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Turnaround Time Required (Business Days) \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_  
 Sample Disposal:  1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other \_\_\_\_\_  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u> Company: <u>Terracon</u> Date: <u>9/4/15</u> Time: <u>8:10</u>	Received By <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>08:10</u>	Lab Courier <u>TA</u>
Relinquished By <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>09:30</u>	Received By <u>Shirley Scott</u> Company: <u>TA-CHI</u> Date: <u>9/4/15</u> Time: <u>09:30</u>	Shipped _____
Relinquished By _____ Company: _____ Date: _____ Time: _____	Received By _____ Company: _____ Date: _____ Time: _____	Hand Delivered _____

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: Meet IL TACO Requirements. Please do not run aluminum for Total/TCRP/SLP analysis. Thank you.

Lab Comments: \_\_\_\_\_



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) \_\_\_\_\_  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: 135 Ambassador Dr.  
Naperville, IL 60540  
 Phone: 630-717-4263  
 Fax: 630-357-9489  
 E-Mail: Matt.Weiss@terracon.com

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job # 500-100833

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
		<u>11157108</u>											
Project Name													
Project Location/State		Lab Project #											
<u>Hoffman Estates, IL</u>													
Sampler		Lab PM											
<u>Chad Kelly</u>													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	PH	Preservative Key
			Date	Time									
21		2618-7-894 (0-2)	9/3/15	4:35	6	S	✓	✓	✓	✓	✓	✓	
22		2618-7-895 (0-2)	9/3/15	4:20	6	S	✓	✓	✓	✓	✓	✓	
23		2618-7-895 Dup (0-2)	9/3/15	4:25	6	S	✓	✓	✓	✓	✓	✓	
24		2618-7-896 (0-2)	9/3/15	4:10	6	S	✓	✓	✓	✓	✓	✓	
25		2618-7-897 (0-2)	9/3/15	3:30	6	S	✓	✓	✓	✓	✓	✓	
26		2618-7-898 (0-2)	9/3/15	3:20	6	S	✓	✓	✓	✓	✓	✓	
27		2618-7-899 (0-2)	9/3/15	3:05	6	S	✓	✓	✓	✓	✓	✓	
28		2618-7-B100 (0-2)	9/3/15	2:55	6	S	✓	✓	✓	✓	✓	✓	
29		2618-7-B101 (0-2)	9/3/15	2:45	6	S	✓	✓	✓	✓	✓	✓	
30		2618-7-B102 (0-2)	9/3/15	2:35	6	S	✓	✓	✓	✓	✓	✓	

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other \_\_\_\_\_

Requested Due Date: \_\_\_\_\_

Sample Disposal:  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>9/4/15</u>	Time <u>8:10</u>	Received By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>08:10</u>	Lab Courier <u>TA</u>
Relinquished By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>09:30</u>	Received By <u>Shirley Roth</u>	Company <u>TA-CHE</u>	Date <u>9/4/15</u>	Time <u>09:30</u>	Shipped _____
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered _____

Matrix Key

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Soil	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments: Meet IL TACO Requirements please. Please do not run aluminum for Total/TCLP/SPLP analysis. Thanks!

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To \_\_\_\_\_ (optional) Bill To \_\_\_\_\_ (optional)  
 Contact: Matt Weiss Contact: \_\_\_\_\_  
 Company: Terracon Company: \_\_\_\_\_  
 Address: 135 Amundson Dr. Address: \_\_\_\_\_  
 Address: Mareville, IL 60540 Address: \_\_\_\_\_  
 Phone: 630-217-4263 Phone: \_\_\_\_\_  
 Fax: 630-357-9489 Fax: \_\_\_\_\_  
 E-Mail: matt.weiss@terracon.com PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100833

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Project Name		1157108								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #										
Hoffman Estates, IL												
Sampler		Lab PM										
Chad Kelly												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	NOCS	SVOLCS	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	pH
			Date	Time								
31		2618-7-B103 (0-2)	9/3/15	2:25	6	S	✓	✓	✓	✓	✓	✓
32		2618-7-B104 (0-2)	9/3/15	2:15	6	S	✓	✓	✓	✓	✓	✓
33		2618-7-B105 (0-2)	9/3/15	2:05	6	S	✓	✓	✓	✓	✓	✓
34		2618-7-B106 (0-2)	9/3/15	1:55	6	S	✓	✓	✓	✓	✓	✓
35		2618-7-B107 (0-2)	9/3/15	1:45	6	S	✓	✓	✓	✓	✓	✓
36		2618-7-B108 (0-2)	9/3/15	1:35	6	S	✓	✓	✓	✓	✓	✓
37		2618-7-B109 (0-2)	9/3/15	1:25	6	S	✓	✓	✓	✓	✓	✓
38		2618-7-B110 (0-2)	9/3/15	1:05	6	S	✓	✓	✓	✓	✓	✓
39		2618-7-B110 Dup (0-2)	9/3/15	1:10	6	S	✓	✓	✓	✓	✓	✓
40		2618-7-B111 (0-2)	9/3/15	1:00	6	S	✓	✓	✓	✓	✓	✓

Turnaround Time Required (Business Days):  1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other \_\_\_\_\_

Requested Due Date: \_\_\_\_\_

Sample Disposal:  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Chad Kelly</u>	Company: <u>Terracon</u>	Date: <u>9/4/15</u>	Time: <u>8:10</u>	Received By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>08:10</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>09:30</u>	Received By: <u>Shawn Scott</u>	Company: <u>TA - CH</u>	Date: <u>9/4/15</u>	Time: <u>09:30</u>	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

<p>Matrix Key</p> <p>WW - Wastewater SE - Sediment          W - Water SO - Soil          S - Soil L - Leachate          SL - Sludge WI - Wipe          MS - Miscellaneous DW - Drinking Water          OL - Oil O - Other          A - Air</p>	<p>Client Comments</p> <p><u>Meet IL TACO Requirements. Please do not run aluminum for Total/TCLP/SPLP analysis please.</u></p>	<p>Lab Comments:</p>
--	---	----------------------

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100833-1

**Login Number: 100833**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3,3.6,3.0,4.0,3.3,3.1,2.7,2.5,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100741-1

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/16/2015 12:42:36 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Job ID: 500-100741-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100741-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/3/2015 9:02 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.2° C.

#### GC/MS VOA

Method(s) 8260B: Due to internal standard (ISTD) area failures, a dilution was required for the following sample: 2618-7-B76 (0-2) (500-100741-16). The sample was initially analyzed without dilution. All internal standards were outside the QC limits. The sample was re-analyzed with similar results. No usable data was obtained from the un-diluted runs. The sample was re-analyzed at a dilution using the methanol extraction method. All internal standard areas were within limits in the diluted run. Elevated reporting limits have been provided.

Method(s) 8260B: The following analyte recovered outside control limits for the LCSD associated with 303115: Bromomethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: 2618-7-B76 (0-2) (500-100741-16), 2618-7-B77 (0-2) (500-100741-17) and 2618-7-B78 (0-2) (500-100741-18). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 303065 had 1 analyte outside control limits: 2,4-Dinitrophenol at 6%; therefore, corrective action was not performed. These results have been reported and qualified. 2618-7-B57 (0-2) (500-100741-1), 2618-7-B58 (0-2) (500-100741-2), 2618-7-B59 (0-2) (500-100741-3), 2618-7-B60 (0-2) (500-100741-4), 2618-7-B61 (0-2) (500-100741-5), 2618-7-B62 (0-2) (500-100741-6), 2618-7-B63 (0-2) (500-100741-7), 2618-7-B64 (0-2) (500-100741-8), 2618-7-B65 (0-2) (500-100741-9), 2618-7-B65 DUP (0-2) (500-100741-10), 2618-7-B66 (0-2) (500-100741-11), 2618-7-B67 (0-2) (500-100741-12), 2618-7-B68 (0-2) (500-100741-13), 2618-7-B69 (0-2) (500-100741-14), 2618-7-B70 (0-2) (500-100741-15), 2618-7-B76 (0-2) (500-100741-16), 2618-7-B77 (0-2) (500-100741-17), 2618-7-B78 (0-2) (500-100741-18) and 2618-7-B79 (0-2) (500-100741-19)

Method(s) 8270D: The following samples (and -1 MS/MSD) contained one base surrogate outside acceptance limits: 2618-7-B70 (0-2) (500-100741-15), 2618-7-B78 (0-2) (500-100741-18) and 2618-7-B79 (0-2) (500-100741-19). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one acid and one base surrogate outside acceptance limits: 2618-7-B76 (0-2) (500-100741-16). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with batch 500-303222 had results for Lead above the reporting limit. The laboratory blank (LB) and laboratory control sample (LCS) were within limits. Associated samples were non-detects (ND) for Lead, therefore the data have been reported. The following samples are impacted: 500-100741-1 through 14, 16, and 18 through 20, TCLP.

Method(s) 6010B: The continuing calibration verification (CCV) associated with batch 500-303222 recovered above the upper control limit for Lead. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The

# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Job ID: 500-100741-1 (Continued)

### Laboratory: TestAmerica Chicago (Continued)

following samples are impacted: 2618-7-B61 (0-2) (500-100741-5), 2618-7-B62 (0-2) (500-100741-6), 2618-7-B63 (0-2) (500-100741-7), 2618-7-B64 (0-2) (500-100741-8), 2618-7-B65 (0-2) (500-100741-9), 2618-7-B65 DUP (0-2) (500-100741-10), 2618-7-B66 (0-2) (500-100741-11), 2618-7-B67 (0-2) (500-100741-12), 2618-7-B68 (0-2) (500-100741-13), 2618-7-B69 (0-2) (500-100741-14), 2618-7-B76 (0-2) (500-100741-16), 2618-7-B78 (0-2) (500-100741-18) and 2618-7-B79 (0-2) (500-100741-19).

Method(s) 6020A: The continuing calibration blank (CCB) at lines 74, 86 and 90 recovered above the reporting limit for TI in batch 500-303677. All the associated samples were below the RL and therefore were reported.

Method(s) 6020A: The low level continuing calibration verification (CCVL) associated with batch 500-303677, at line 91, recovered above the upper control limit for Thallium. The samples associated with this CCVL were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020A: The matrix spike (MS) recovery for 500-100741-1 (splp) recovered below 50% for Sb. An MSA was performed and confirmed the original result.

Method(s) 7471A, 7471B: The initial calibration verification (ICV) for AD batch 303180 recovered above the upper control limit for Hg. All CCV's were within control limits and the data was reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B57 (0-2)**

**Lab Sample ID: 500-100741-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.58	J F1	1.2	0.25	mg/Kg	1		☼	6010B	Total/NA
Arsenic	12		0.60	0.28	mg/Kg	1		☼	6010B	Total/NA
Barium	69		0.60	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.84		0.24	0.052	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.39		0.12	0.035	mg/Kg	1		☼	6010B	Total/NA
Chromium	21		0.60	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	12	F1	0.30	0.068	mg/Kg	1		☼	6010B	Total/NA
Copper	32		0.60	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	27000	B	12	4.6	mg/Kg	1		☼	6010B	Total/NA
Lead	16	F1	0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	9300	F2 B	6.0	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	11000	F2 B	12	3.9	mg/Kg	1		☼	6010B	Total/NA
Manganese	360		0.60	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	30	F1 B	0.60	0.16	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.1		0.60	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	28		0.30	0.087	mg/Kg	1		☼	6010B	Total/NA
Zinc	59	F1	1.2	0.38	mg/Kg	1		☼	6010B	Total/NA
Potassium	2400		30	4.9	mg/Kg	1		☼	6010B	Total/NA
Sodium	2800		60	7.9	mg/Kg	1		☼	6010B	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.43	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.044		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	97		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.034	J B	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.13		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.96		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0095		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0054		0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	40		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.25		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.42		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	300		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.19		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	40		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	3.9		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.33		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	36	F1	2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.89		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0068		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.00038		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.042		0.020	0.0070	mg/Kg	1		☼	7471B	Total/NA
pH	9.15		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B58 (0-2)**

**Lab Sample ID: 500-100741-2**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B58 (0-2) (Continued)**

**Lab Sample ID: 500-100741-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.037	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.039	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.073		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.052		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.074		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.043		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.079		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.39	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	80		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	25000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	630		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.61		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2900		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.78	J	2.5	0.50	mg/L	1		6010B	TCLP
Arsenic	0.085		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.83		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0079		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0057		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.069		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B58 (0-2) (Continued)

## Lab Sample ID: 500-100741-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	1.1		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0065		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.042		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.88		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B59 (0-2)

## Lab Sample ID: 500-100741-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.029		0.021	0.0041	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.016	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.017	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.030	J	0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.025	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.025	J	0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.010	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.46	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.40		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	26000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	570		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	29	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.070	J	0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.99		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2900		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.040	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.097		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.91		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0090		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0050		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.091		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B59 (0-2) (Continued)

## Lab Sample ID: 500-100741-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	260		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.87		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0078		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.050		0.020	0.0068	mg/Kg	1	✱	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B60 (0-2)

## Lab Sample ID: 500-100741-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.039	0.0053	mg/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.039	0.0076	mg/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.039	0.0084	mg/Kg	1	✱	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.22		0.20	0.071	mg/Kg	1	✱	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	✱	8270D	Total/NA
Fluoranthene	0.023	J	0.039	0.0072	mg/Kg	1	✱	8270D	Total/NA
Phenanthrene	0.010	J	0.039	0.0054	mg/Kg	1	✱	8270D	Total/NA
Pyrene	0.020	J	0.039	0.0078	mg/Kg	1	✱	8270D	Total/NA
Arsenic	9.6		0.60	0.28	mg/Kg	1	✱	6010B	Total/NA
Barium	60		0.60	0.11	mg/Kg	1	✱	6010B	Total/NA
Beryllium	0.73		0.24	0.052	mg/Kg	1	✱	6010B	Total/NA
Cadmium	0.35		0.12	0.035	mg/Kg	1	✱	6010B	Total/NA
Chromium	19		0.60	0.10	mg/Kg	1	✱	6010B	Total/NA
Cobalt	9.9		0.30	0.068	mg/Kg	1	✱	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	✱	6010B	Total/NA
Iron	21000	B	12	4.7	mg/Kg	1	✱	6010B	Total/NA
Lead	14		0.30	0.15	mg/Kg	1	✱	6010B	Total/NA
Magnesium	27000	B	6.0	2.5	mg/Kg	1	✱	6010B	Total/NA
Calcium	43000	B	12	3.9	mg/Kg	1	✱	6010B	Total/NA
Manganese	540		0.60	0.12	mg/Kg	1	✱	6010B	Total/NA
Nickel	25	B	0.60	0.16	mg/Kg	1	✱	6010B	Total/NA
Thallium	0.81		0.60	0.30	mg/Kg	1	✱	6010B	Total/NA
Vanadium	25		0.30	0.088	mg/Kg	1	✱	6010B	Total/NA
Zinc	47		1.2	0.38	mg/Kg	1	✱	6010B	Total/NA
Potassium	3000		30	4.9	mg/Kg	1	✱	6010B	Total/NA
Sodium	2600		60	8.0	mg/Kg	1	✱	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.070		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.024	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.12		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.77		0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B60 (0-2) (Continued)

## Lab Sample ID: 500-100741-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0085		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0057		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.078		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	260		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.87		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0081		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.042		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.94		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B61 (0-2)

## Lab Sample ID: 500-100741-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0080	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.018	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.43	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	560		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.074		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.063	J B	0.10	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B61 (0-2) (Continued)

## Lab Sample ID: 500-100741-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.086		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.70		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0064		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	68		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	200		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	48		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.92		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.78		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.035		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.08		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B62 (0-2)

## Lab Sample ID: 500-100741-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.030	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.036	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.072		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.027	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.046		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.064		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.063		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.40		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	34000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	490		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.56		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B62 (0-2) (Continued)

## Lab Sample ID: 500-100741-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	450		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.092		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.14		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.91		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0066		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	47		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	310		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.32		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	56		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.0		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0082		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.023		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.10		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B63 (0-2)

## Lab Sample ID: 500-100741-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.029	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.068		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.048		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.061		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.030	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.061		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.6		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B63 (0-2) (Continued)**

**Lab Sample ID: 500-100741-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.41	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	3100		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.88		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0094		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0048	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	99		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	280		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	76		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	50		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.90		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0059		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.021		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.70		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B64 (0-2)**

**Lab Sample ID: 500-100741-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0060	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.038	0.0081	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0089	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B64 (0-2) (Continued)**

**Lab Sample ID: 500-100741-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	25		0.56	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	21000	B	11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	20000	B	5.6	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	31000	B	11	3.6	mg/Kg	1		☼	6010B	Total/NA
Manganese	500		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	27	B	0.56	0.15	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.0		0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	25		0.28	0.082	mg/Kg	1		☼	6010B	Total/NA
Zinc	46		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	1300		56	7.4	mg/Kg	1		☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	400		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.042	J B	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.083		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.74		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0080		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0051		0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	50		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.054		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.20		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	48		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.83		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	38		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.23		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.77		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0050		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.032		0.017	0.0059	mg/Kg	1		☼	7471B	Total/NA
pH	9.14		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B65 (0-2)**

**Lab Sample ID: 500-100741-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.026	J	0.037	0.0050	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.028	J	0.037	0.0072	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.054		0.037	0.0080	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.037	0.011	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.038		0.037	0.010	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.050		0.037	0.0069	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.025	J	0.037	0.0052	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.051		0.037	0.0074	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.27	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B65 (0-2) (Continued)

## Lab Sample ID: 500-100741-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	8.5		0.55	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	50		0.55	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.68		0.22	0.048	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.40		0.11	0.032	mg/Kg	1		☼	6010B	Total/NA
Chromium	20		0.55	0.095	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.5		0.28	0.063	mg/Kg	1		☼	6010B	Total/NA
Copper	27		0.55	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	21000	B	11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	81		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	24000	B	5.5	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	38000	B	11	3.6	mg/Kg	1		☼	6010B	Total/NA
Manganese	420		0.55	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	25	B	0.55	0.15	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.57		0.55	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	23		0.28	0.081	mg/Kg	1		☼	6010B	Total/NA
Zinc	61		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	2700		28	4.5	mg/Kg	1		☼	6010B	Total/NA
Sodium	2600		55	7.3	mg/Kg	1		☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	400		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.23	B	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.77		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0094		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0063		0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	55		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.23		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.086		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.33		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	280		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.43		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	54		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.31		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	42		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	1.0		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0075		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.026		0.018	0.0064	mg/Kg	1		☼	7471B	Total/NA
pH	9.16		0.200	0.200	SU	1			9045D	Total/NA

## Client Sample ID: 2618-7-B65 DUP (0-2)

## Lab Sample ID: 500-100741-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.024	J	0.038	0.0051	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J	0.038	0.0074	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.047		0.038	0.0082	mg/Kg	1		☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 DUP (0-2) (Continued)**

**Lab Sample ID: 500-100741-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.012	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.040		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.050		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.026	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.047		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.40	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.53		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	50000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	570		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.092	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.83		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000	B	25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.072		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	370	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.75		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0097		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0057		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	70		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.081		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	270		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	60		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B65 DUP (0-2) (Continued)

## Lab Sample ID: 500-100741-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.86		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0071		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018	J	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	9.04		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B66 (0-2)

## Lab Sample ID: 500-100741-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0068	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0088	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	24		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	85000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	720		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	42	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.12	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	560		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	57		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.016	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	74		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	35		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.065		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.040		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B66 (0-2) (Continued)

## Lab Sample ID: 500-100741-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.046		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.24		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.23		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B67 (0-2)

## Lab Sample ID: 500-100741-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0064	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036		0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.027	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	42000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	95000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.57		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	920		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	560		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	74		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.12	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Iron	1.8		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	7.2		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.9		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.10		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.00		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B68 (0-2)

## Lab Sample ID: 500-100741-13

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B68 (0-2) (Continued)**

**Lab Sample ID: 500-100741-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0073	J	0.038	0.0052	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.039		0.038	0.010	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.012	J	0.038	0.0071	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.029	J	0.038	0.0054	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.027	J	0.038	0.0076	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.35	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.9		0.55	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	45		0.55	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.67		0.22	0.048	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.28		0.11	0.032	mg/Kg	1		☼	6010B	Total/NA
Chromium	18		0.55	0.094	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.2		0.27	0.062	mg/Kg	1		☼	6010B	Total/NA
Copper	24		0.55	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	19000	B	11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	13		0.27	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	36000	B	5.5	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	90000	B	110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	410		0.55	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	25	B	0.55	0.15	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.31	J	0.55	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	21		0.27	0.080	mg/Kg	1		☼	6010B	Total/NA
Zinc	42		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	3700		27	4.5	mg/Kg	1		☼	6010B	Total/NA
Sodium	1700		55	7.2	mg/Kg	1		☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1400	B	25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.049		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	330	B	2.5	0.50	mg/L	1			6010B	TCLP
Manganese	4.8		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.053		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.098	J	0.10	0.020	mg/L	1			6010B	TCLP
Barium	0.26	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	58		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.018	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.027		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	13		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.022		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	14		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.018	J	0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	7.3		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.023	J	0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.24		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.017		0.017	0.0061	mg/Kg	1		☼	7471B	Total/NA
pH	8.98		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B69 (0-2)**

**Lab Sample ID: 500-100741-14**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B69 (0-2) (Continued)**

**Lab Sample ID: 500-100741-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzofluoranthene	0.011	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0082	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0083	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.9		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.6		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.74		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	44		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	570		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.039	J B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	58		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	16		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.020		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	6.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.16		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.81		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B70 (0-2)**

**Lab Sample ID: 500-100741-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		0.65	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.65	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.26	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.64		0.13	0.038	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B70 (0-2) (Continued)**

**Lab Sample ID: 500-100741-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	20		0.65	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.32	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.65	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	13	5.0	mg/Kg	1	☼	6010B	Total/NA
Lead	90		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	6.5	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000	B	13	4.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.65	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	25	B	0.65	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J	0.65	0.32	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.75		0.65	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.32	0.095	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.3	0.41	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		32	5.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		65	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.43		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.26	B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	13		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.032		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.3		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.097		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	6.6		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.16		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.043		0.021	0.0074	mg/Kg	1	☼	7471B	Total/NA
pH	8.73		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B76 (0-2)**

**Lab Sample ID: 500-100741-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.19	J	0.37	0.066	mg/Kg	10	☼	8270D	Total/NA
Anthracene	0.49		0.37	0.062	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	2.2		0.37	0.050	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	2.6		0.37	0.071	mg/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	4.9		0.37	0.079	mg/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.1		0.37	0.12	mg/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.6		0.37	0.11	mg/Kg	10	☼	8270D	Total/NA
Chrysene	2.9		0.37	0.10	mg/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B76 (0-2) (Continued)**

**Lab Sample ID: 500-100741-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.28	J	0.37	0.071	mg/Kg	10		☼	8270D	Total/NA
Fluoranthene	5.5		0.37	0.068	mg/Kg	10		☼	8270D	Total/NA
Fluorene	0.19	J	0.37	0.052	mg/Kg	10		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.37	0.095	mg/Kg	10		☼	8270D	Total/NA
Phenanthrene	3.2		0.37	0.051	mg/Kg	10		☼	8270D	Total/NA
Pyrene	7.2		0.37	0.073	mg/Kg	10		☼	8270D	Total/NA
Antimony	0.28	J	1.1	0.22	mg/Kg	1		☼	6010B	Total/NA
Arsenic	3.5		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	77		0.54	0.098	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.56		0.21	0.046	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.39		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	12		0.54	0.092	mg/Kg	1		☼	6010B	Total/NA
Cobalt	2.5		0.27	0.061	mg/Kg	1		☼	6010B	Total/NA
Copper	25		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	8400	B	11	4.1	mg/Kg	1		☼	6010B	Total/NA
Lead	51		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	40000	B	5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	130000	B	110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	430		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	8.1	B	0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Silver	0.067	J	0.27	0.063	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.39	J	0.54	0.26	mg/Kg	1		☼	6010B	Total/NA
Vanadium	13		0.27	0.078	mg/Kg	1		☼	6010B	Total/NA
Zinc	110		1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	1000		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	340		54	7.1	mg/Kg	1		☼	6010B	Total/NA
Arsenic	0.015	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.49	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	710		25	5.0	mg/L	10			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	14		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.082	J B	0.10	0.020	mg/L	1			6010B	TCLP
Barium	0.14	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.013	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.025		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	5.4		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.039		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	5.5		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	2.3	J	2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.014	J	0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.17		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.083		0.017	0.0061	mg/Kg	1		☼	7471B	Total/NA
Cyanide, Total	0.24	J	0.53	0.17	mg/Kg	1		☼	9014	Total/NA
pH	8.20		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B77 (0-2)**

**Lab Sample ID: 500-100741-17**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B77 (0-2) (Continued)**

**Lab Sample ID: 500-100741-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.092	J	0.19	0.035	mg/Kg	5	☼	8270D	Total/NA
Anthracene	0.25		0.19	0.032	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1.1		0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1.3		0.19	0.037	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2.2		0.19	0.042	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.47		0.19	0.062	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.93		0.19	0.057	mg/Kg	5	☼	8270D	Total/NA
Chrysene	1.4		0.19	0.053	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.13	J	0.19	0.037	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	2.7		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Fluorene	0.093	J	0.19	0.027	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.53		0.19	0.050	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	1.5		0.19	0.027	mg/Kg	5	☼	8270D	Total/NA
Pyrene	3.3		0.19	0.038	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.42	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.76		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	120		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.73		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	320		2.5	0.50	mg/L	1		6010B	TCLP
Lead	0.020		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.45	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.033	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.59		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0045		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0056		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.15		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B77 (0-2) (Continued)

## Lab Sample ID: 500-100741-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.88		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.79		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0026		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.042		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.94		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B78 (0-2)

## Lab Sample ID: 500-100741-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.066	J	0.21	0.035	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	0.31		0.21	0.028	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	0.35		0.21	0.041	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.47		0.21	0.045	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.32		0.21	0.062	mg/Kg	5	☼	8270D	Total/NA
Chrysene	0.42		0.21	0.057	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	0.58		0.21	0.039	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	0.31		0.21	0.029	mg/Kg	5	☼	8270D	Total/NA
Pyrene	0.84		0.21	0.042	mg/Kg	5	☼	8270D	Total/NA
Arsenic	8.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	94		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.83		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	77		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	28000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	670		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.69		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.087	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.038	J	0.050	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B78 (0-2) (Continued)

## Lab Sample ID: 500-100741-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.75		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0059		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	170		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.48		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.97		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0032		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.039		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.71		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B79 (0-2)

## Lab Sample ID: 500-100741-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.026	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.033	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.071		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.020	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.044		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.060		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.026	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.067		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.48		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	3000		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Client Sample ID: 2618-7-B79 (0-2) (Continued)

## Lab Sample ID: 500-100741-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.085		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.29	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.037	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.71		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0053		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0057		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.65		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0035		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.044		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.50		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-10-B01 (0-1)

## Lab Sample ID: 500-100741-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0081	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.064		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.082		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.031	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.069		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.087		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.1		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	4100	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-10-B01 (0-1) (Continued)**

**Lab Sample ID: 500-100741-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	760		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	24	B	0.56	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.83		0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.96		0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	28		0.28	0.082	mg/Kg	1		☼	6010B	Total/NA
Zinc	51		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	1800		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	1400		56	7.4	mg/Kg	1		☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	120		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.025	J	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.075	J B	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.042	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.80		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0065		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	33		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.030		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.062		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.74		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.59		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0030		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.036		0.018	0.0062	mg/Kg	1		☼	7471B	Total/NA
pH	8.66		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100741-1	2618-7-B57 (0-2)	Solid	09/02/15 15:40	09/03/15 09:02
500-100741-2	2618-7-B58 (0-2)	Solid	09/02/15 15:25	09/03/15 09:02
500-100741-3	2618-7-B59 (0-2)	Solid	09/02/15 15:10	09/03/15 09:02
500-100741-4	2618-7-B60 (0-2)	Solid	09/02/15 14:55	09/03/15 09:02
500-100741-5	2618-7-B61 (0-2)	Solid	09/02/15 14:45	09/03/15 09:02
500-100741-6	2618-7-B62 (0-2)	Solid	09/02/15 14:30	09/03/15 09:02
500-100741-7	2618-7-B63 (0-2)	Solid	09/02/15 14:05	09/03/15 09:02
500-100741-8	2618-7-B64 (0-2)	Solid	09/02/15 13:50	09/03/15 09:02
500-100741-9	2618-7-B65 (0-2)	Solid	09/02/15 13:30	09/03/15 09:02
500-100741-10	2618-7-B65 DUP (0-2)	Solid	09/02/15 13:35	09/03/15 09:02
500-100741-11	2618-7-B66 (0-2)	Solid	09/02/15 13:20	09/03/15 09:02
500-100741-12	2618-7-B67 (0-2)	Solid	09/02/15 13:05	09/03/15 09:02
500-100741-13	2618-7-B68 (0-2)	Solid	09/02/15 12:05	09/03/15 09:02
500-100741-14	2618-7-B69 (0-2)	Solid	09/02/15 11:50	09/03/15 09:02
500-100741-15	2618-7-B70 (0-2)	Solid	09/02/15 11:35	09/03/15 09:02
500-100741-16	2618-7-B76 (0-2)	Solid	09/02/15 09:55	09/03/15 09:02
500-100741-17	2618-7-B77 (0-2)	Solid	09/02/15 09:40	09/03/15 09:02
500-100741-18	2618-7-B78 (0-2)	Solid	09/02/15 09:30	09/03/15 09:02
500-100741-19	2618-7-B79 (0-2)	Solid	09/02/15 08:40	09/03/15 09:02
500-100741-20	2618-10-B01 (0-1)	Solid	09/02/15 14:15	09/03/15 09:02

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B57 (0-2)**

**Lab Sample ID: 500-100741-1**

Date Collected: 09/02/15 15:40

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 81.6

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Bromomethane	<0.0055	*	0.0055	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	09/03/15 17:25	09/04/15 14:04	1
Dibromofluoromethane	99		75 - 120	09/03/15 17:25	09/04/15 14:04	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	09/03/15 17:25	09/04/15 14:04	1
Toluene-d8 (Surr)	120		75 - 122	09/03/15 17:25	09/04/15 14:04	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B57 (0-2)**

**Lab Sample ID: 500-100741-1**

**Date Collected: 09/02/15 15:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Benzo[b]fluoranthene	<0.039	F1	0.039	0.0084	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Benzo[k]fluoranthene	<0.039	F1	0.039	0.012	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.071	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.074	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
4,6-Dinitro-2-methylphenol	<0.79	F2	0.79	0.31	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,4-Dinitrophenol	<0.79	F1 *	0.79	0.69	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Di-n-octyl phthalate	<0.20	F1	0.20	0.064	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.22	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B57 (0-2)**

**Lab Sample ID: 500-100741-1**

**Date Collected: 09/02/15 15:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
Pyrene	<0.039	F1	0.039	0.0078	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/09/15 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	09/04/15 07:30	09/09/15 14:38	1
2-Fluorophenol	94		25 - 110	09/04/15 07:30	09/09/15 14:38	1
Nitrobenzene-d5	97		25 - 115	09/04/15 07:30	09/09/15 14:38	1
Phenol-d5	86		31 - 110	09/04/15 07:30	09/09/15 14:38	1
Terphenyl-d14	92		36 - 134	09/04/15 07:30	09/09/15 14:38	1
2,4,6-Tribromophenol	95		35 - 137	09/04/15 07:30	09/09/15 14:38	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.58</b>	<b>J F1</b>	1.2	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Arsenic</b>	<b>12</b>		0.60	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Barium</b>	<b>69</b>		0.60	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Beryllium</b>	<b>0.84</b>		0.24	0.052	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Cadmium</b>	<b>0.39</b>		0.12	0.035	mg/Kg	☼	09/04/15 11:00	09/05/15 18:25	1
<b>Chromium</b>	<b>21</b>		0.60	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Cobalt</b>	<b>12</b>	<b>F1</b>	0.30	0.068	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Copper</b>	<b>32</b>		0.60	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Iron</b>	<b>27000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Lead</b>	<b>16</b>	<b>F1</b>	0.30	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Magnesium</b>	<b>9300</b>	<b>F2 B</b>	6.0	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Calcium</b>	<b>11000</b>	<b>F2 B</b>	12	3.9	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Manganese</b>	<b>360</b>		0.60	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Nickel</b>	<b>30</b>	<b>F1 B</b>	0.60	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Thallium</b>	<b>1.1</b>		0.60	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Vanadium</b>	<b>28</b>		0.30	0.087	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Zinc</b>	<b>59</b>	<b>F1</b>	1.2	0.38	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Potassium</b>	<b>2400</b>		30	4.9	mg/Kg	☼	09/04/15 11:00	09/05/15 02:48	1
<b>Sodium</b>	<b>2800</b>		60	7.9	mg/Kg	☼	09/04/15 11:00	09/05/15 18:25	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 22:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 22:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 22:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B57 (0-2)**

**Lab Sample ID: 500-100741-1**

**Date Collected: 09/02/15 15:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
<b>Cobalt</b>	<b>0.044</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 22:04	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 22:04	1
<b>Magnesium</b>	<b>97</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:04	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
<b>Nickel</b>	<b>0.021</b>	J	0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
<b>Potassium</b>	<b>1.3</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 22:04	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:04	1
<b>Zinc</b>	<b>0.034</b>	J B	0.10	0.020	mg/L		09/04/15 12:00	09/05/15 23:02	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.13</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Barium</b>	<b>0.96</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Beryllium</b>	<b>0.0095</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 22:25	1
<b>Cadmium</b>	<b>0.0054</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 22:25	1
<b>Calcium</b>	<b>40</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Chromium</b>	<b>0.25</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Cobalt</b>	<b>0.14</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Copper</b>	<b>0.42</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Iron</b>	<b>300</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Magnesium</b>	<b>40</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 22:25	1
<b>Manganese</b>	<b>3.9</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:25	1
<b>Nickel</b>	<b>0.33</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Potassium</b>	<b>36</b>	F1	2.5	0.50	mg/L		09/04/15 11:00	09/04/15 21:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 21:10	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Vanadium</b>	<b>0.35</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:10	1
<b>Zinc</b>	<b>0.89</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 22:25	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:06	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:01	1
<b>Thallium</b>	<b>0.0068</b>		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:08	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00038</b>		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B57 (0-2)**

**Lab Sample ID: 500-100741-1**

**Date Collected: 09/02/15 15:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.0070	mg/Kg	☼	09/03/15 17:30	09/04/15 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:49	1
pH	9.15		0.200	0.200	SU			09/09/15 12:55	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B58 (0-2)**

**Lab Sample ID: 500-100741-2**

Date Collected: 09/02/15 15:25

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 79.8

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0044	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Benzene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Bromodichloromethane	<0.0057		0.0057	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Bromoform	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Bromomethane	<0.0057	*	0.0057	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Carbon disulfide	<0.0057		0.0057	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Carbon tetrachloride	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Chlorobenzene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Chloroethane	<0.0057		0.0057	0.0024	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Chloroform	<0.0057		0.0057	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Chloromethane	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Dibromochloromethane	<0.0057		0.0057	0.00065	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,1-Dichloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,1-Dichloroethene	<0.0057		0.0057	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,2-Dichloropropane	<0.0057		0.0057	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,3-Dichloropropane, Total	<0.0057		0.0057	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Ethylbenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Methylene Chloride	<0.0057		0.0057	0.0043	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Methyl tert-butyl ether	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Styrene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Tetrachloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Toluene	<0.0057		0.0057	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Trichloroethene	<0.0057		0.0057	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Vinyl acetate	<0.0057		0.0057	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Vinyl chloride	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/03/15 17:25	09/04/15 14:54	1
Dibromofluoromethane	96		75 - 120	09/03/15 17:25	09/04/15 14:54	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	09/03/15 17:25	09/04/15 14:54	1
Toluene-d8 (Surr)	114		75 - 122	09/03/15 17:25	09/04/15 14:54	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Benzo[a]anthracene</b>	<b>0.037</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B58 (0-2)**

**Lab Sample ID: 500-100741-2**

**Date Collected: 09/02/15 15:25**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 79.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.039</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.073</b>		0.040	0.0087	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Benzo[g,h,i]perylene</b>	<b>0.018</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Benzo[k]fluoranthene</b>	<b>0.028</b>	<b>J</b>	0.040	0.012	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Chrysene</b>	<b>0.052</b>		0.040	0.011	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Fluoranthene</b>	<b>0.074</b>		0.040	0.0075	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.019</b>	<b>J</b>	0.040	0.010	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B58 (0-2)**

**Lab Sample ID: 500-100741-2**

**Date Collected: 09/02/15 15:25**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 79.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Phenanthrene</b>	<b>0.043</b>		0.040	0.0056	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
<b>Pyrene</b>	<b>0.079</b>		0.040	0.0080	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/04/15 07:30	09/14/15 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		25 - 119	09/04/15 07:30	09/14/15 15:57	1
2-Fluorophenol	94		25 - 110	09/04/15 07:30	09/14/15 15:57	1
Nitrobenzene-d5	80		25 - 115	09/04/15 07:30	09/14/15 15:57	1
Phenol-d5	95		31 - 110	09/04/15 07:30	09/14/15 15:57	1
Terphenyl-d14	126		36 - 134	09/04/15 07:30	09/14/15 15:57	1
2,4,6-Tribromophenol	92		35 - 137	09/04/15 07:30	09/14/15 15:57	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Arsenic</b>	<b>11</b>		0.59	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Barium</b>	<b>80</b>		0.59	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Beryllium</b>	<b>0.85</b>		0.24	0.051	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Cadmium</b>	<b>0.43</b>		0.12	0.034	mg/Kg	☼	09/04/15 11:00	09/05/15 18:55	1
<b>Chromium</b>	<b>21</b>		0.59	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Cobalt</b>	<b>11</b>		0.29	0.067	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Copper</b>	<b>26</b>		0.59	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Iron</b>	<b>25000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Lead</b>	<b>36</b>		0.29	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Magnesium</b>	<b>17000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Calcium</b>	<b>24000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Manganese</b>	<b>630</b>		0.59	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.59	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Selenium</b>	<b>0.31</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Thallium</b>	<b>0.61</b>		0.59	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Vanadium</b>	<b>31</b>		0.29	0.086	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Zinc</b>	<b>59</b>		1.2	0.37	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Potassium</b>	<b>2800</b>		29	4.8	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1
<b>Sodium</b>	<b>2900</b>		59	7.8	mg/Kg	☼	09/04/15 11:00	09/05/15 03:22	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 22:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 22:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 22:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B58 (0-2)**

**Lab Sample ID: 500-100741-2**

**Date Collected: 09/02/15 15:25**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 79.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>300</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 22:24	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 22:24	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:24	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
<b>Potassium</b>	<b>0.78</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 22:24	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:24	1
Zinc	<0.10		0.10	0.020	mg/L		09/04/15 12:00	09/05/15 23:22	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.085</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Barium</b>	<b>0.83</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Beryllium</b>	<b>0.0079</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 22:44	1
<b>Cadmium</b>	<b>0.0057</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 22:44	1
<b>Calcium</b>	<b>39</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:44	1
<b>Cobalt</b>	<b>0.069</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Magnesium</b>	<b>33</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 22:44	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:44	1
<b>Nickel</b>	<b>0.24</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Potassium</b>	<b>30</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 21:53	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 21:53	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:53	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:44	1
<b>Zinc</b>	<b>1.1</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 22:44	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:33	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:33	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:19	1
<b>Thallium</b>	<b>0.0065</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 19:19	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B58 (0-2)**

**Lab Sample ID: 500-100741-2**

**Date Collected: 09/02/15 15:25**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 79.8**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0067	mg/Kg	☼	09/03/15 17:30	09/04/15 12:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:50	1
pH	8.88		0.200	0.200	SU			09/09/15 13:10	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B59 (0-2)**

**Lab Sample ID: 500-100741-3**

Date Collected: 09/02/15 15:10

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 80.1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.029</b>		0.021	0.0041	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Bromomethane	<0.0052 *		0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Methylene Chloride	<0.0052		0.0052	0.0040	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/03/15 17:25	09/04/15 15:19	1
Dibromofluoromethane	100		75 - 120	09/03/15 17:25	09/04/15 15:19	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	09/03/15 17:25	09/04/15 15:19	1
Toluene-d8 (Surr)	116		75 - 122	09/03/15 17:25	09/04/15 15:19	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
<b>Benzo[a]anthracene</b>	<b>0.016 J</b>		0.039	0.0053	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B59 (0-2)**

**Lab Sample ID: 500-100741-3**

**Date Collected: 09/02/15 15:10**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 80.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.017</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
<b>Benzo[b]fluoranthene</b>	<b>0.030</b>	<b>J</b>	0.039	0.0086	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
<b>Chrysene</b>	<b>0.025</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
<b>Fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0074	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.010</b>	<b>J</b>	0.039	0.010	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B59 (0-2)**

**Lab Sample ID: 500-100741-3**

**Date Collected: 09/02/15 15:10**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 80.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
<b>Phenanthrene</b>	<b>0.010</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0079	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/04/15 07:30	09/09/15 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		25 - 119	09/04/15 07:30	09/09/15 15:03	1
2-Fluorophenol	94		25 - 110	09/04/15 07:30	09/09/15 15:03	1
Nitrobenzene-d5	79		25 - 115	09/04/15 07:30	09/09/15 15:03	1
Phenol-d5	89		31 - 110	09/04/15 07:30	09/09/15 15:03	1
Terphenyl-d14	86		36 - 134	09/04/15 07:30	09/09/15 15:03	1
2,4,6-Tribromophenol	87		35 - 137	09/04/15 07:30	09/09/15 15:03	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.46</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Arsenic</b>	<b>11</b>		0.59	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Barium</b>	<b>73</b>		0.59	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Beryllium</b>	<b>0.85</b>		0.24	0.051	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Cadmium</b>	<b>0.40</b>		0.12	0.034	mg/Kg	☼	09/04/15 11:00	09/05/15 19:00	1
<b>Chromium</b>	<b>22</b>		0.59	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Cobalt</b>	<b>12</b>		0.29	0.067	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Copper</b>	<b>28</b>		0.59	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Iron</b>	<b>26000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Lead</b>	<b>22</b>		0.29	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Magnesium</b>	<b>15000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Calcium</b>	<b>21000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Manganese</b>	<b>570</b>		0.59	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Nickel</b>	<b>29</b>	<b>B</b>	0.59	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Silver</b>	<b>0.070</b>	<b>J</b>	0.29	0.069	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Thallium</b>	<b>0.99</b>		0.59	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Vanadium</b>	<b>30</b>		0.29	0.086	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Zinc</b>	<b>58</b>		1.2	0.37	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Potassium</b>	<b>3000</b>		29	4.8	mg/Kg	☼	09/04/15 11:00	09/05/15 03:29	1
<b>Sodium</b>	<b>2900</b>		59	7.8	mg/Kg	☼	09/04/15 11:00	09/05/15 19:00	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 22:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 22:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 22:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B59 (0-2)**

**Lab Sample ID: 500-100741-3**

Date Collected: 09/02/15 15:10

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 80.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 22:29	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 22:29	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:29	1
<b>Manganese</b>	<b>0.86</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
<b>Potassium</b>	<b>1.5</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 22:29	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:29	1
<b>Zinc</b>	<b>0.040</b>	J B	0.10	0.020	mg/L		09/04/15 12:00	09/05/15 23:27	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.097</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Barium</b>	<b>0.91</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Beryllium</b>	<b>0.0090</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 22:49	1
<b>Cadmium</b>	<b>0.0050</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 22:49	1
<b>Calcium</b>	<b>35</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:49	1
<b>Cobalt</b>	<b>0.091</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Copper</b>	<b>0.28</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Iron</b>	<b>260</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Magnesium</b>	<b>39</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 22:49	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:49	1
<b>Nickel</b>	<b>0.27</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Potassium</b>	<b>35</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 21:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 21:59	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 21:59	1
<b>Vanadium</b>	<b>0.29</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:49	1
<b>Zinc</b>	<b>0.87</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 22:49	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:36	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:36	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:24	1
<b>Thallium</b>	<b>0.0078</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 19:24	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B59 (0-2)**

**Lab Sample ID: 500-100741-3**

Date Collected: 09/02/15 15:10

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 80.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.020	0.0068	mg/Kg	☼	09/03/15 17:30	09/04/15 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:50	1
pH	8.36		0.200	0.200	SU			09/09/15 13:18	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B60 (0-2)**

**Lab Sample ID: 500-100741-4**

Date Collected: 09/02/15 14:55

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 81.4

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	09/03/15 17:25	09/04/15 15:44	1
Dibromofluoromethane	97		75 - 120	09/03/15 17:25	09/04/15 15:44	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	09/03/15 17:25	09/04/15 15:44	1
Toluene-d8 (Surr)	115		75 - 122	09/03/15 17:25	09/04/15 15:44	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B60 (0-2)**

**Lab Sample ID: 500-100741-4**

**Date Collected: 09/02/15 14:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
<b>Benzo[b]fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0084	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.22</b>		0.20	0.071	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
<b>Chrysene</b>	<b>0.019</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
<b>Fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B60 (0-2)**

**Lab Sample ID: 500-100741-4**

**Date Collected: 09/02/15 14:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
<b>Phenanthrene</b>	<b>0.010</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
<b>Pyrene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/09/15 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		25 - 119				09/04/15 07:30	09/09/15 15:28	1
2-Fluorophenol	104		25 - 110				09/04/15 07:30	09/09/15 15:28	1
Nitrobenzene-d5	88		25 - 115				09/04/15 07:30	09/09/15 15:28	1
Phenol-d5	102		31 - 110				09/04/15 07:30	09/09/15 15:28	1
Terphenyl-d14	103		36 - 134				09/04/15 07:30	09/09/15 15:28	1
2,4,6-Tribromophenol	99		35 - 137				09/04/15 07:30	09/09/15 15:28	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Arsenic</b>	<b>9.6</b>		0.60	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Barium</b>	<b>60</b>		0.60	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Beryllium</b>	<b>0.73</b>		0.24	0.052	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Cadmium</b>	<b>0.35</b>		0.12	0.035	mg/Kg	☼	09/04/15 11:00	09/05/15 19:05	1
<b>Chromium</b>	<b>19</b>		0.60	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Cobalt</b>	<b>9.9</b>		0.30	0.068	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Copper</b>	<b>23</b>		0.60	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.7	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Lead</b>	<b>14</b>		0.30	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	6.0	2.5	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Calcium</b>	<b>43000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Manganese</b>	<b>540</b>		0.60	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.60	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Thallium</b>	<b>0.81</b>		0.60	0.30	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Vanadium</b>	<b>25</b>		0.30	0.088	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Zinc</b>	<b>47</b>		1.2	0.38	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Potassium</b>	<b>3000</b>		30	4.9	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1
<b>Sodium</b>	<b>2600</b>		60	8.0	mg/Kg	☼	09/04/15 11:00	09/05/15 03:35	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 22:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 22:34	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B60 (0-2)**

**Lab Sample ID: 500-100741-4**

**Date Collected: 09/02/15 14:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>400</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 22:34	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 22:34	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:34	1
<b>Manganese</b>	<b>0.070</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
<b>Potassium</b>	<b>1.5</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 22:34	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:34	1
<b>Zinc</b>	<b>0.024</b>	J B	0.10	0.020	mg/L		09/04/15 12:00	09/05/15 23:31	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.12</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Beryllium</b>	<b>0.0085</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 22:53	1
<b>Cadmium</b>	<b>0.0057</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 22:53	1
<b>Calcium</b>	<b>43</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:53	1
<b>Cobalt</b>	<b>0.078</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Copper</b>	<b>0.29</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Iron</b>	<b>260</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Magnesium</b>	<b>40</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 22:53	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:53	1
<b>Nickel</b>	<b>0.27</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Potassium</b>	<b>34</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:06	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:06	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:06	1
<b>Vanadium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:53	1
<b>Zinc</b>	<b>0.87</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 22:53	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:40	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:40	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:38	1
<b>Thallium</b>	<b>0.0081</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 19:38	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B60 (0-2)**

**Lab Sample ID: 500-100741-4**

**Date Collected: 09/02/15 14:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:29	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0067	mg/Kg	☼	09/03/15 17:30	09/04/15 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/03/15 16:45	09/03/15 20:51	1
pH	8.94		0.200	0.200	SU			09/09/15 13:25	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B61 (0-2)**

**Lab Sample ID: 500-100741-5**

Date Collected: 09/02/15 14:45

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	09/03/15 17:25	09/04/15 16:09	1
Dibromofluoromethane	102		75 - 120	09/03/15 17:25	09/04/15 16:09	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	09/03/15 17:25	09/04/15 16:09	1
Toluene-d8 (Surr)	113		75 - 122	09/03/15 17:25	09/04/15 16:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
<b>Benzo[a]anthracene</b>	<b>0.0080</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B61 (0-2)**

**Lab Sample ID: 500-100741-5**

**Date Collected: 09/02/15 14:45**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
<b>Benzo[b]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
<b>Fluoranthene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B61 (0-2)**

**Lab Sample ID: 500-100741-5**

**Date Collected: 09/02/15 14:45**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
<b>Pyrene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/09/15 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		25 - 119	09/04/15 07:30	09/09/15 15:53	1
2-Fluorophenol	96		25 - 110	09/04/15 07:30	09/09/15 15:53	1
Nitrobenzene-d5	83		25 - 115	09/04/15 07:30	09/09/15 15:53	1
Phenol-d5	89		31 - 110	09/04/15 07:30	09/09/15 15:53	1
Terphenyl-d14	96		36 - 134	09/04/15 07:30	09/09/15 15:53	1
2,4,6-Tribromophenol	67		35 - 137	09/04/15 07:30	09/09/15 15:53	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Arsenic</b>	<b>8.8</b>		0.56	0.26	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Barium</b>	<b>50</b>		0.56	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Beryllium</b>	<b>0.69</b>		0.22	0.048	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Cadmium</b>	<b>0.36</b>		0.11	0.032	mg/Kg	☼	09/04/15 11:00	09/05/15 19:10	1
<b>Chromium</b>	<b>18</b>		0.56	0.096	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Cobalt</b>	<b>12</b>		0.28	0.063	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Copper</b>	<b>26</b>		0.56	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Magnesium</b>	<b>32000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Calcium</b>	<b>81000</b>	<b>B</b>	110	36	mg/Kg	☼	09/04/15 11:00	09/05/15 19:15	10
<b>Manganese</b>	<b>400</b>		0.56	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Nickel</b>	<b>26</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Thallium</b>	<b>0.43</b>	<b>J</b>	0.56	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Vanadium</b>	<b>23</b>		0.28	0.081	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Zinc</b>	<b>52</b>		1.1	0.35	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Potassium</b>	<b>3500</b>		28	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1
<b>Sodium</b>	<b>1800</b>		56	7.3	mg/Kg	☼	09/04/15 11:00	09/05/15 03:58	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 22:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 22:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B61 (0-2)**

**Lab Sample ID: 500-100741-5**

Date Collected: 09/02/15 14:45

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.8

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>560</b>		2.5	0.50	mg/L		09/04/15 12:00	09/05/15 23:43	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 22:48	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 22:48	1
<b>Magnesium</b>	<b>38</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:48	1
<b>Manganese</b>	<b>0.074</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
<b>Potassium</b>	<b>1.9</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 22:48	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:48	1
<b>Zinc</b>	<b>0.063</b>	J B	0.10	0.020	mg/L		09/04/15 12:00	09/05/15 23:43	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.086</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Barium</b>	<b>0.70</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Beryllium</b>	<b>0.0064</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 22:58	1
<b>Cadmium</b>	<b>0.0039</b>	J	0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 22:58	1
<b>Calcium</b>	<b>68</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:58	1
<b>Cobalt</b>	<b>0.063</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Iron</b>	<b>200</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Magnesium</b>	<b>48</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 22:58	1
<b>Manganese</b>	<b>0.92</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:58	1
<b>Nickel</b>	<b>0.21</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Potassium</b>	<b>32</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:13	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:13	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:13	1
<b>Vanadium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 22:58	1
<b>Zinc</b>	<b>0.78</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 22:58	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:44	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:44	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:43	1
<b>Thallium</b>	<b>0.0048</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 19:43	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B61 (0-2)**

**Lab Sample ID: 500-100741-5**

**Date Collected: 09/02/15 14:45**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.8**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:31	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0064	mg/Kg	☼	09/03/15 17:30	09/04/15 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:51	1
pH	9.08		0.200	0.200	SU			09/09/15 13:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B62 (0-2)**

**Lab Sample ID: 500-100741-6**

**Date Collected: 09/02/15 14:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 83.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/03/15 17:25	09/04/15 16:34	1
Dibromofluoromethane	101		75 - 120	09/03/15 17:25	09/04/15 16:34	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/03/15 17:25	09/04/15 16:34	1
Toluene-d8 (Surr)	113		75 - 122	09/03/15 17:25	09/04/15 16:34	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
<b>Benzo[a]anthracene</b>	<b>0.030</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B62 (0-2)**

**Lab Sample ID: 500-100741-6**

**Date Collected: 09/02/15 14:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 83.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.036</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
<b>Benzo[b]fluoranthene</b>	<b>0.072</b>		0.039	0.0084	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
<b>Benzo[k]fluoranthene</b>	<b>0.027</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
<b>Chrysene</b>	<b>0.046</b>		0.039	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
<b>Fluoranthene</b>	<b>0.064</b>		0.039	0.0072	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B62 (0-2)**

**Lab Sample ID: 500-100741-6**

**Date Collected: 09/02/15 14:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 83.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
<b>Phenanthrene</b>	<b>0.032</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
<b>Pyrene</b>	<b>0.063</b>		0.039	0.0077	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		25 - 119	09/04/15 07:30	09/10/15 15:52	1
2-Fluorophenol	108		25 - 110	09/04/15 07:30	09/10/15 15:52	1
Nitrobenzene-d5	111		25 - 115	09/04/15 07:30	09/10/15 15:52	1
Phenol-d5	96		31 - 110	09/04/15 07:30	09/10/15 15:52	1
Terphenyl-d14	126		36 - 134	09/04/15 07:30	09/10/15 15:52	1
2,4,6-Tribromophenol	81		35 - 137	09/04/15 07:30	09/10/15 15:52	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Arsenic</b>	<b>8.9</b>		0.56	0.26	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Barium</b>	<b>53</b>		0.56	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Beryllium</b>	<b>0.70</b>		0.22	0.048	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Cadmium</b>	<b>0.40</b>		0.11	0.032	mg/Kg	☼	09/04/15 11:00	09/05/15 19:19	1
<b>Chromium</b>	<b>18</b>		0.56	0.096	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Cobalt</b>	<b>10</b>		0.28	0.063	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Copper</b>	<b>26</b>		0.56	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Lead</b>	<b>33</b>		0.28	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Calcium</b>	<b>34000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Manganese</b>	<b>490</b>		0.56	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Nickel</b>	<b>26</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Thallium</b>	<b>0.56</b>		0.56	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Vanadium</b>	<b>23</b>		0.28	0.082	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Zinc</b>	<b>56</b>		1.1	0.35	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Potassium</b>	<b>2700</b>		28	4.6	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1
<b>Sodium</b>	<b>2300</b>		56	7.4	mg/Kg	☼	09/04/15 11:00	09/05/15 04:05	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 22:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 22:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 22:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B62 (0-2)**

**Lab Sample ID: 500-100741-6**

Date Collected: 09/02/15 14:30

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 83.7

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>450</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:53	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 22:53	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 22:53	1
<b>Magnesium</b>	<b>90</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:53	1
<b>Manganese</b>	<b>0.092</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
<b>Potassium</b>	<b>1.7</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:53	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 22:53	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:53	1
<b>Zinc</b>	<b>0.21</b>	B	0.10	0.020	mg/L		09/04/15 12:00	09/05/15 23:52	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.14</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Barium</b>	<b>0.91</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Beryllium</b>	<b>0.011</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:09	1
<b>Cadmium</b>	<b>0.0066</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:09	1
<b>Calcium</b>	<b>47</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Chromium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:09	1
<b>Cobalt</b>	<b>0.11</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Copper</b>	<b>0.35</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Iron</b>	<b>310</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Lead</b>	<b>0.32</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Magnesium</b>	<b>56</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:09	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:09	1
<b>Nickel</b>	<b>0.34</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Potassium</b>	<b>40</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:20	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:20	1
<b>Vanadium</b>	<b>0.29</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:09	1
<b>Zinc</b>	<b>1.0</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:09	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:48	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:48	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:47	1
<b>Thallium</b>	<b>0.0082</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 19:47	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B62 (0-2)**

**Lab Sample ID: 500-100741-6**

Date Collected: 09/02/15 14:30

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 83.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0064	mg/Kg	☼	09/03/15 17:30	09/04/15 13:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:51	1
pH	9.10		0.200	0.200	SU			09/09/15 13:41	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B63 (0-2)**

**Lab Sample ID: 500-100741-7**

**Date Collected: 09/02/15 14:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Benzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Bromoform	<0.0047		0.0047	0.00097	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Bromomethane	<0.0047 *		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,1-Dichloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00098	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Tetrachloroethene	<0.0047		0.0047	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00092	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/03/15 17:25	09/04/15 16:59	1
Dibromofluoromethane	98		75 - 120	09/03/15 17:25	09/04/15 16:59	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/03/15 17:25	09/04/15 16:59	1
Toluene-d8 (Surr)	115		75 - 122	09/03/15 17:25	09/04/15 16:59	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
<b>Benzo[a]anthracene</b>	<b>0.029</b>	<b>J</b>	0.037	0.0051	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B63 (0-2)**

**Lab Sample ID: 500-100741-7**

**Date Collected: 09/02/15 14:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.035	J	0.037	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Benzo[b]fluoranthene	0.068		0.037	0.0081	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Benzo[g,h,i]perylene	0.013	J	0.037	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Benzo[k]fluoranthene	0.022	J	0.037	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Chrysene	0.048		0.037	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Fluoranthene	0.061		0.037	0.0070	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B63 (0-2)**

**Lab Sample ID: 500-100741-7**

**Date Collected: 09/02/15 14:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
<b>Phenanthrene</b>	<b>0.030</b>	<b>J</b>	0.037	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
<b>Pyrene</b>	<b>0.061</b>		0.037	0.0075	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		25 - 119	09/04/15 07:30	09/10/15 03:12	1
2-Fluorophenol	104		25 - 110	09/04/15 07:30	09/10/15 03:12	1
Nitrobenzene-d5	106		25 - 115	09/04/15 07:30	09/10/15 03:12	1
Phenol-d5	101		31 - 110	09/04/15 07:30	09/10/15 03:12	1
Terphenyl-d14	131		36 - 134	09/04/15 07:30	09/10/15 03:12	1
2,4,6-Tribromophenol	81		35 - 137	09/04/15 07:30	09/10/15 03:12	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Arsenic</b>	<b>6.5</b>		0.56	0.26	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Barium</b>	<b>47</b>		0.56	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.049	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.033	mg/Kg	☼	09/04/15 11:00	09/05/15 19:24	1
<b>Chromium</b>	<b>19</b>		0.56	0.097	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Cobalt</b>	<b>9.6</b>		0.28	0.064	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Copper</b>	<b>21</b>		0.56	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Lead</b>	<b>19</b>		0.28	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Calcium</b>	<b>46000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Manganese</b>	<b>380</b>		0.56	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Nickel</b>	<b>26</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Thallium</b>	<b>0.41</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Vanadium</b>	<b>21</b>		0.28	0.082	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Zinc</b>	<b>45</b>		1.1	0.36	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Potassium</b>	<b>3500</b>		28	4.6	mg/Kg	☼	09/04/15 11:00	09/05/15 04:12	1
<b>Sodium</b>	<b>3100</b>		56	7.4	mg/Kg	☼	09/04/15 11:00	09/05/15 19:24	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 22:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 22:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 22:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B63 (0-2)**

**Lab Sample ID: 500-100741-7**

**Date Collected: 09/02/15 14:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>520</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 22:58	1
Lead	<0.0075	<b>^</b>	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Magnesium</b>	<b>43</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Manganese</b>	<b>4.9</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Potassium</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 22:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 22:58	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 22:58	1
<b>Zinc</b>	<b>0.13</b>	<b>B</b>	0.10	0.020	mg/L		09/04/15 12:00	09/05/15 23:58	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Barium</b>	<b>0.88</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Beryllium</b>	<b>0.0094</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:14	1
<b>Cadmium</b>	<b>0.0048</b>	<b>J</b>	0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:14	1
<b>Calcium</b>	<b>99</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Chromium</b>	<b>0.25</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:14	1
<b>Cobalt</b>	<b>0.15</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Copper</b>	<b>0.38</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Iron</b>	<b>280</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Lead</b>	<b>0.21</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Magnesium</b>	<b>76</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:14	1
<b>Manganese</b>	<b>3.3</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:14	1
<b>Nickel</b>	<b>0.34</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Potassium</b>	<b>50</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:27	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:27	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:27	1
<b>Vanadium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:14	1
<b>Zinc</b>	<b>0.90</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:14	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:51	1
Thallium	<0.0020	<b>^</b>	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:51	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:52	1
<b>Thallium</b>	<b>0.0059</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 19:52	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:36	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B63 (0-2)**

**Lab Sample ID: 500-100741-7**

**Date Collected: 09/02/15 14:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0065	mg/Kg	☼	09/03/15 17:30	09/04/15 13:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:52	1
pH	8.70		0.200	0.200	SU			09/09/15 13:48	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B64 (0-2)**

**Lab Sample ID: 500-100741-8**

**Date Collected: 09/02/15 13:50**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 86.5**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Bromodichloromethane	<0.0051		0.0051	0.00085	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/03/15 17:25	09/04/15 17:24	1
Dibromofluoromethane	98		75 - 120	09/03/15 17:25	09/04/15 17:24	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/03/15 17:25	09/04/15 17:24	1
Toluene-d8 (Surr)	112		75 - 122	09/03/15 17:25	09/04/15 17:24	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
<b>Benzo[a]anthracene</b>	<b>0.0060</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B64 (0-2)**

**Lab Sample ID: 500-100741-8**

**Date Collected: 09/02/15 13:50**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 86.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.038	0.0081	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
<b>Chrysene</b>	<b>0.022</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
<b>Fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B64 (0-2)**

**Lab Sample ID: 500-100741-8**

Date Collected: 09/02/15 13:50

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 86.5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
<b>Phenanthrene</b>	<b>0.0089</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
<b>Pyrene</b>	<b>0.016</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		25 - 119				09/04/15 07:30	09/10/15 03:35	1
2-Fluorophenol	105		25 - 110				09/04/15 07:30	09/10/15 03:35	1
Nitrobenzene-d5	109		25 - 115				09/04/15 07:30	09/10/15 03:35	1
Phenol-d5	97		31 - 110				09/04/15 07:30	09/10/15 03:35	1
Terphenyl-d14	127		36 - 134				09/04/15 07:30	09/10/15 03:35	1
2,4,6-Tribromophenol	84		35 - 137				09/04/15 07:30	09/10/15 03:35	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.34</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Arsenic</b>	<b>8.0</b>		0.56	0.26	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Barium</b>	<b>63</b>		0.56	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Beryllium</b>	<b>0.77</b>		0.23	0.049	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Cadmium</b>	<b>0.28</b>		0.11	0.033	mg/Kg	☼	09/04/15 11:00	09/05/15 19:29	1
<b>Chromium</b>	<b>20</b>		0.56	0.097	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Cobalt</b>	<b>12</b>		0.28	0.064	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Copper</b>	<b>25</b>		0.56	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Lead</b>	<b>16</b>		0.28	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Calcium</b>	<b>31000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Manganese</b>	<b>500</b>		0.56	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Nickel</b>	<b>27</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Thallium</b>	<b>1.0</b>		0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Vanadium</b>	<b>25</b>		0.28	0.082	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Zinc</b>	<b>46</b>		1.1	0.36	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Potassium</b>	<b>3100</b>		28	4.6	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1
<b>Sodium</b>	<b>1300</b>		56	7.4	mg/Kg	☼	09/04/15 11:00	09/05/15 04:18	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B64 (0-2)**

**Lab Sample ID: 500-100741-8**

**Date Collected: 09/02/15 13:50**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 86.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>400</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:03	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:03	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:03	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:03	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
<b>Potassium</b>	<b>2.0</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:03	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:03	1
<b>Zinc</b>	<b>0.042</b>	J B	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 00:03	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.083</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Barium</b>	<b>0.74</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Beryllium</b>	<b>0.0080</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:18	1
<b>Cadmium</b>	<b>0.0051</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:18	1
<b>Calcium</b>	<b>50</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:18	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Lead</b>	<b>0.20</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Magnesium</b>	<b>48</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:18	1
<b>Manganese</b>	<b>0.83</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:18	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Potassium</b>	<b>38</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:33	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:33	1
<b>Vanadium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:18	1
<b>Zinc</b>	<b>0.77</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:18	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:55	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:55	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 19:56	1
<b>Thallium</b>	<b>0.0050</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 19:56	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B64 (0-2)**

**Lab Sample ID: 500-100741-8**

**Date Collected: 09/02/15 13:50**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 86.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:41	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.017	0.0059	mg/Kg	☼	09/03/15 17:30	09/04/15 13:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/03/15 16:45	09/03/15 20:52	1
pH	9.14		0.200	0.200	SU			09/09/15 13:56	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 (0-2)**

**Lab Sample ID: 500-100741-9**

Date Collected: 09/02/15 13:30

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.8

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/03/15 17:25	09/04/15 17:49	1
Dibromofluoromethane	100		75 - 120	09/03/15 17:25	09/04/15 17:49	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/03/15 17:25	09/04/15 17:49	1
Toluene-d8 (Surr)	113		75 - 122	09/03/15 17:25	09/04/15 17:49	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.037	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 (0-2)**

**Lab Sample ID: 500-100741-9**

**Date Collected: 09/02/15 13:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.028</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
<b>Benzo[b]fluoranthene</b>	<b>0.054</b>		0.037	0.0080	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
<b>Benzo[k]fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
<b>Chrysene</b>	<b>0.038</b>		0.037	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
<b>Fluoranthene</b>	<b>0.050</b>		0.037	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 (0-2)**

**Lab Sample ID: 500-100741-9**

**Date Collected: 09/02/15 13:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
<b>Phenanthrene</b>	<b>0.025</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
<b>Pyrene</b>	<b>0.051</b>		0.037	0.0074	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119	09/04/15 07:30	09/10/15 16:15	1
2-Fluorophenol	101		25 - 110	09/04/15 07:30	09/10/15 16:15	1
Nitrobenzene-d5	92		25 - 115	09/04/15 07:30	09/10/15 16:15	1
Phenol-d5	105		31 - 110	09/04/15 07:30	09/10/15 16:15	1
Terphenyl-d14	119		36 - 134	09/04/15 07:30	09/10/15 16:15	1
2,4,6-Tribromophenol	81		35 - 137	09/04/15 07:30	09/10/15 16:15	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.27</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Arsenic</b>	<b>8.5</b>		0.55	0.26	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Barium</b>	<b>50</b>		0.55	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Beryllium</b>	<b>0.68</b>		0.22	0.048	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Cadmium</b>	<b>0.40</b>		0.11	0.032	mg/Kg	☼	09/04/15 11:00	09/05/15 19:34	1
<b>Chromium</b>	<b>20</b>		0.55	0.095	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Cobalt</b>	<b>9.5</b>		0.28	0.063	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Copper</b>	<b>27</b>		0.55	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Lead</b>	<b>81</b>		0.28	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Magnesium</b>	<b>24000</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Calcium</b>	<b>38000</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Manganese</b>	<b>420</b>		0.55	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Thallium</b>	<b>0.57</b>		0.55	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Vanadium</b>	<b>23</b>		0.28	0.081	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Zinc</b>	<b>61</b>		1.1	0.35	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Potassium</b>	<b>2700</b>		28	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1
<b>Sodium</b>	<b>2600</b>		55	7.3	mg/Kg	☼	09/04/15 11:00	09/05/15 04:25	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 (0-2)**

**Lab Sample ID: 500-100741-9**

**Date Collected: 09/02/15 13:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>400</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:08	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:08	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:08	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
<b>Potassium</b>	<b>1.6</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:08	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:08	1
<b>Zinc</b>	<b>0.23</b>	B	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 00:08	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Beryllium</b>	<b>0.0094</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:23	1
<b>Cadmium</b>	<b>0.0063</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:23	1
<b>Calcium</b>	<b>55</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Chromium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:23	1
<b>Cobalt</b>	<b>0.086</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Copper</b>	<b>0.33</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Iron</b>	<b>280</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Lead</b>	<b>0.43</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Magnesium</b>	<b>54</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:23	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:23	1
<b>Nickel</b>	<b>0.31</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Potassium</b>	<b>42</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:40	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:40	1
<b>Vanadium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:23	1
<b>Zinc</b>	<b>1.0</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:23	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 19:59	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 19:59	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:01	1
<b>Thallium</b>	<b>0.0075</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:01	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 (0-2)**

**Lab Sample ID: 500-100741-9**

Date Collected: 09/02/15 13:30

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0064	mg/Kg	☼	09/03/15 17:30	09/04/15 13:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:53	1
pH	9.16		0.200	0.200	SU			09/09/15 14:04	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 DUP (0-2)**

**Lab Sample ID: 500-100741-10**

**Date Collected: 09/02/15 13:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 85.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Bromomethane	<0.0047 *		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Vinyl acetate	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/03/15 17:25	09/04/15 18:14	1
Dibromofluoromethane	100		75 - 120	09/03/15 17:25	09/04/15 18:14	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/03/15 17:25	09/04/15 18:14	1
Toluene-d8 (Surr)	112		75 - 122	09/03/15 17:25	09/04/15 18:14	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Benzo[a]anthracene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 DUP (0-2)**

**Lab Sample ID: 500-100741-10**

**Date Collected: 09/02/15 13:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 85.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.029</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Benzo[b]fluoranthene</b>	<b>0.047</b>		0.038	0.0082	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Benzo[g,h,i]perylene</b>	<b>0.012</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Benzo[k]fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Chrysene</b>	<b>0.040</b>		0.038	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Fluoranthene</b>	<b>0.050</b>		0.038	0.0071	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 DUP (0-2)**

**Lab Sample ID: 500-100741-10**

Date Collected: 09/02/15 13:35

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 85.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Phenanthrene</b>	<b>0.026</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
<b>Pyrene</b>	<b>0.047</b>		0.038	0.0076	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		25 - 119	09/04/15 07:30	09/10/15 02:49	1
2-Fluorophenol	99		25 - 110	09/04/15 07:30	09/10/15 02:49	1
Nitrobenzene-d5	97		25 - 115	09/04/15 07:30	09/10/15 02:49	1
Phenol-d5	104		31 - 110	09/04/15 07:30	09/10/15 02:49	1
Terphenyl-d14	114		36 - 134	09/04/15 07:30	09/10/15 02:49	1
2,4,6-Tribromophenol	88		35 - 137	09/04/15 07:30	09/10/15 02:49	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.40</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Arsenic</b>	<b>8.9</b>		0.58	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Barium</b>	<b>47</b>		0.58	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.051	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Cadmium</b>	<b>0.53</b>		0.12	0.034	mg/Kg	☼	09/04/15 11:00	09/05/15 19:39	1
<b>Chromium</b>	<b>18</b>		0.58	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Cobalt</b>	<b>11</b>		0.29	0.066	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Copper</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Lead</b>	<b>24</b>		0.29	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Magnesium</b>	<b>29000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Calcium</b>	<b>50000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Manganese</b>	<b>570</b>		0.58	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Nickel</b>	<b>26</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Silver</b>	<b>0.092</b>	<b>J</b>	0.29	0.068	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Thallium</b>	<b>0.83</b>		0.58	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Vanadium</b>	<b>23</b>		0.29	0.085	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Zinc</b>	<b>53</b>		1.2	0.37	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Potassium</b>	<b>3100</b>		29	4.8	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1
<b>Sodium</b>	<b>2500</b>		58	7.7	mg/Kg	☼	09/04/15 11:00	09/05/15 04:32	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 DUP (0-2)**

**Lab Sample ID: 500-100741-10**

**Date Collected: 09/02/15 13:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 85.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1000</b>	<b>B</b>	25	5.0	mg/L		09/04/15 12:00	09/06/15 00:18	10
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Cobalt</b>	<b>0.072</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:13	1
Lead	<0.0075	<b>^</b>	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Magnesium</b>	<b>370</b>	<b>B</b>	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Manganese</b>	<b>6.7</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Potassium</b>	<b>1.2</b>	<b>J</b>	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:13	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:13	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:13	1
<b>Zinc</b>	<b>0.049</b>	<b>J</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 00:13	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Barium</b>	<b>0.75</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Beryllium</b>	<b>0.0097</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:28	1
<b>Cadmium</b>	<b>0.0057</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:28	1
<b>Calcium</b>	<b>70</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Chromium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:28	1
<b>Cobalt</b>	<b>0.081</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Copper</b>	<b>0.33</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Iron</b>	<b>270</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Magnesium</b>	<b>60</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:28	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:28	1
<b>Nickel</b>	<b>0.30</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Potassium</b>	<b>44</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:47	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:47	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:47	1
<b>Vanadium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:28	1
<b>Zinc</b>	<b>0.86</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:28	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:10	1
Thallium	<0.0020	<b>^</b>	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:10	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:06	1
<b>Thallium</b>	<b>0.0071</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:06	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B65 DUP (0-2)**

**Lab Sample ID: 500-100741-10**

**Date Collected: 09/02/15 13:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 85.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:45	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0066	mg/Kg	☼	09/03/15 17:30	09/04/15 13:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:53	1
pH	9.04		0.200	0.200	SU			09/09/15 14:11	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B66 (0-2)**

**Lab Sample ID: 500-100741-11**

**Date Collected: 09/02/15 13:20**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Bromomethane	<0.0045	*	0.0045	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122	09/03/15 17:25	09/04/15 18:40	1
Dibromofluoromethane	100		75 - 120	09/03/15 17:25	09/04/15 18:40	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/03/15 17:25	09/04/15 18:40	1
Toluene-d8 (Surr)	115		75 - 122	09/03/15 17:25	09/04/15 18:40	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
<b>Benzo[a]anthracene</b>	<b>0.0068</b>	<b>J</b>	0.037	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B66 (0-2)**

**Lab Sample ID: 500-100741-11**

**Date Collected: 09/02/15 13:20**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
<b>Chrysene</b>	<b>0.015</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.037	0.0070	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B66 (0-2)**

**Lab Sample ID: 500-100741-11**

Date Collected: 09/02/15 13:20

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
<b>Phenanthrene</b>	<b>0.0088</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0075	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 04:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	80		25 - 119				09/04/15 07:30	09/10/15 04:44	1
2-Fluorophenol	90		25 - 110				09/04/15 07:30	09/10/15 04:44	1
Nitrobenzene-d5	86		25 - 115				09/04/15 07:30	09/10/15 04:44	1
Phenol-d5	98		31 - 110				09/04/15 07:30	09/10/15 04:44	1
Terphenyl-d14	129		36 - 134				09/04/15 07:30	09/10/15 04:44	1
2,4,6-Tribromophenol	76		35 - 137				09/04/15 07:30	09/10/15 04:44	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.37</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Arsenic</b>	<b>10</b>		0.58	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Barium</b>	<b>37</b>		0.58	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Beryllium</b>	<b>0.71</b>		0.23	0.050	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Cadmium</b>	<b>0.36</b>		0.12	0.034	mg/Kg	☼	09/04/15 11:00	09/05/15 19:51	1
<b>Chromium</b>	<b>18</b>		0.58	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Cobalt</b>	<b>24</b>		0.29	0.066	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Copper</b>	<b>25</b>		0.58	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Iron</b>	<b>23000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Lead</b>	<b>21</b>		0.29	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Magnesium</b>	<b>35000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Calcium</b>	<b>85000</b>	<b>B</b>	120	37	mg/Kg	☼	09/04/15 11:00	09/05/15 19:56	10
<b>Manganese</b>	<b>720</b>		0.58	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Nickel</b>	<b>42</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Silver</b>	<b>0.12</b>	<b>J</b>	0.29	0.068	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Thallium</b>	<b>1.1</b>		0.58	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Vanadium</b>	<b>20</b>		0.29	0.085	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Zinc</b>	<b>48</b>		1.2	0.37	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Potassium</b>	<b>3600</b>		29	4.7	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1
<b>Sodium</b>	<b>1200</b>		58	7.7	mg/Kg	☼	09/04/15 11:00	09/05/15 04:39	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B66 (0-2)**

**Lab Sample ID: 500-100741-11**

**Date Collected: 09/02/15 13:20**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>560</b>		2.5	0.50	mg/L		09/04/15 12:00	09/06/15 00:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:18	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:18	1
<b>Magnesium</b>	<b>57</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:18	1
<b>Manganese</b>	<b>0.77</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
<b>Potassium</b>	<b>2.5</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:18	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:18	1
<b>Zinc</b>	<b>0.18</b>	<b>B</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 00:22	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.016</b>	<b>J</b>	0.050	0.010	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 11:00	09/04/15 22:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:32	1
<b>Calcium</b>	<b>74</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Chromium</b>	<b>0.038</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:32	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Copper</b>	<b>0.049</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Iron</b>	<b>35</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Lead</b>	<b>0.065</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:32	1
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:32	1
<b>Nickel</b>	<b>0.040</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Potassium</b>	<b>12</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 22:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/04/15 22:54	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 22:54	1
<b>Vanadium</b>	<b>0.046</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:32	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:32	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:14	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:14	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:10	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B66 (0-2)**

**Lab Sample ID: 500-100741-11**

**Date Collected: 09/02/15 13:20**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:47	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0063	mg/Kg	☼	09/03/15 17:30	09/04/15 13:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/03/15 16:45	09/03/15 20:53	1
pH	8.23		0.200	0.200	SU			09/09/15 14:19	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B67 (0-2)**

**Lab Sample ID: 500-100741-12**

Date Collected: 09/02/15 13:05

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 87.6

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Bromoform	<0.0045		0.0045	0.00093	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Bromomethane	<0.0045	*	0.0045	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Chloroform	<0.0045		0.0045	0.00089	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,1-Dichloroethane	<0.0045		0.0045	0.00094	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,1-Dichloroethene	<0.0045		0.0045	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00094	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Tetrachloroethene	<0.0045		0.0045	0.00095	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/03/15 17:25	09/04/15 19:05	1
Dibromofluoromethane	100		75 - 120	09/03/15 17:25	09/04/15 19:05	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/03/15 17:25	09/04/15 19:05	1
Toluene-d8 (Surr)	114		75 - 122	09/03/15 17:25	09/04/15 19:05	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0064	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
<b>Benzo[a]anthracene</b>	<b>0.0064</b>	<b>J</b>	0.036	0.0048	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B67 (0-2)**

**Lab Sample ID: 500-100741-12**

**Date Collected: 09/02/15 13:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 87.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
<b>Chrysene</b>	<b>0.036</b>		0.036	0.0098	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
<b>Fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B67 (0-2)**

**Lab Sample ID: 500-100741-12**

Date Collected: 09/02/15 13:05

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 87.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
<b>Phenanthrene</b>	<b>0.027</b>	<b>J</b>	0.036	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
<b>Pyrene</b>	<b>0.027</b>	<b>J</b>	0.036	0.0071	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/04/15 07:30	09/10/15 16:38	1
2-Fluorophenol	105		25 - 110	09/04/15 07:30	09/10/15 16:38	1
Nitrobenzene-d5	89		25 - 115	09/04/15 07:30	09/10/15 16:38	1
Phenol-d5	101		31 - 110	09/04/15 07:30	09/10/15 16:38	1
Terphenyl-d14	121		36 - 134	09/04/15 07:30	09/10/15 16:38	1
2,4,6-Tribromophenol	89		35 - 137	09/04/15 07:30	09/10/15 16:38	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Arsenic</b>	<b>7.3</b>		0.54	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Barium</b>	<b>34</b>		0.54	0.099	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Beryllium</b>	<b>0.46</b>		0.22	0.047	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Cadmium</b>	<b>0.32</b>		0.11	0.031	mg/Kg	☼	09/04/15 11:00	09/05/15 20:00	1
<b>Chromium</b>	<b>13</b>		0.54	0.093	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Cobalt</b>	<b>8.2</b>		0.27	0.061	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Copper</b>	<b>24</b>		0.54	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Lead</b>	<b>13</b>		0.27	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Magnesium</b>	<b>42000</b>	<b>B</b>	5.4	2.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Calcium</b>	<b>95000</b>	<b>B</b>	110	35	mg/Kg	☼	09/04/15 11:00	09/05/15 20:05	10
<b>Manganese</b>	<b>350</b>		0.54	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Nickel</b>	<b>23</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Thallium</b>	<b>0.57</b>		0.54	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Vanadium</b>	<b>14</b>		0.27	0.079	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Zinc</b>	<b>42</b>		1.1	0.34	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Potassium</b>	<b>2800</b>		27	4.4	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1
<b>Sodium</b>	<b>920</b>		54	7.1	mg/Kg	☼	09/04/15 11:00	09/05/15 04:46	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B67 (0-2)**

**Lab Sample ID: 500-100741-12**

**Date Collected: 09/02/15 13:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 87.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>560</b>		2.5	0.50	mg/L		09/04/15 12:00	09/06/15 00:40	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:24	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:24	1
<b>Magnesium</b>	<b>74</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:24	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
<b>Potassium</b>	<b>3.4</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:24	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:24	1
<b>Zinc</b>	<b>0.049</b>	<b>J B</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 00:40	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 23:16	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 11:00	09/04/15 23:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:36	1
<b>Calcium</b>	<b>35</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:36	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:16	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:16	1
<b>Iron</b>	<b>1.8</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 23:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 23:16	1
<b>Magnesium</b>	<b>7.2</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:36	1
<b>Manganese</b>	<b>0.041</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:36	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:16	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/05/15 23:36	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:16	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:36	1
<b>Zinc</b>	<b>0.10</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:36	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:18	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:18	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:15	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B67 (0-2)**

**Lab Sample ID: 500-100741-12**

**Date Collected: 09/02/15 13:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 87.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:49	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0063	mg/Kg	☼	09/03/15 17:30	09/04/15 13:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	09/03/15 16:45	09/03/15 20:54	1
pH	8.00		0.200	0.200	SU			09/09/15 14:27	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B68 (0-2)**

**Lab Sample ID: 500-100741-13**

Date Collected: 09/02/15 12:05

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.4

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	09/03/15 17:25	09/04/15 19:30	1
Dibromofluoromethane	102		75 - 120	09/03/15 17:25	09/04/15 19:30	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	09/03/15 17:25	09/04/15 19:30	1
Toluene-d8 (Surr)	115		75 - 122	09/03/15 17:25	09/04/15 19:30	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
<b>Benzo[a]anthracene</b>	<b>0.0073</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B68 (0-2)**

**Lab Sample ID: 500-100741-13**

**Date Collected: 09/02/15 12:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
<b>Chrysene</b>	<b>0.039</b>		0.038	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
<b>Fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B68 (0-2)**

**Lab Sample ID: 500-100741-13**

Date Collected: 09/02/15 12:05

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.4

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
<b>Phenanthrene</b>	<b>0.029</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
<b>Pyrene</b>	<b>0.027</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/04/15 07:30	09/10/15 02:03	1
2-Fluorophenol	100		25 - 110	09/04/15 07:30	09/10/15 02:03	1
Nitrobenzene-d5	89		25 - 115	09/04/15 07:30	09/10/15 02:03	1
Phenol-d5	94		31 - 110	09/04/15 07:30	09/10/15 02:03	1
Terphenyl-d14	108		36 - 134	09/04/15 07:30	09/10/15 02:03	1
2,4,6-Tribromophenol	89		35 - 137	09/04/15 07:30	09/10/15 02:03	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Arsenic</b>	<b>6.9</b>		0.55	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Barium</b>	<b>45</b>		0.55	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Beryllium</b>	<b>0.67</b>		0.22	0.048	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Cadmium</b>	<b>0.28</b>		0.11	0.032	mg/Kg	☼	09/04/15 11:00	09/05/15 20:09	1
<b>Chromium</b>	<b>18</b>		0.55	0.094	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Cobalt</b>	<b>9.2</b>		0.27	0.062	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Copper</b>	<b>24</b>		0.55	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Lead</b>	<b>13</b>		0.27	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Magnesium</b>	<b>36000</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Calcium</b>	<b>90000</b>	<b>B</b>	110	35	mg/Kg	☼	09/04/15 11:00	09/05/15 20:14	10
<b>Manganese</b>	<b>410</b>		0.55	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Thallium</b>	<b>0.31</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Vanadium</b>	<b>21</b>		0.27	0.080	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Zinc</b>	<b>42</b>		1.1	0.35	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Potassium</b>	<b>3700</b>		27	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1
<b>Sodium</b>	<b>1700</b>		55	7.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:52	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Cadmium</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B68 (0-2)**

**Lab Sample ID: 500-100741-13**

**Date Collected: 09/02/15 12:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1400</b>	<b>B</b>	25	5.0	mg/L		09/04/15 12:00	09/06/15 00:54	10
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Cobalt</b>	<b>0.049</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:29	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Magnesium</b>	<b>330</b>	<b>B</b>	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Manganese</b>	<b>4.8</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Nickel</b>	<b>0.053</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Potassium</b>	<b>1.4</b>	<b>J</b>	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:29	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:29	1
<b>Zinc</b>	<b>0.098</b>	<b>J</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 00:49	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 11:00	09/04/15 23:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:40	1
<b>Calcium</b>	<b>58</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Chromium</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:40	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Copper</b>	<b>0.027</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Iron</b>	<b>13</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Magnesium</b>	<b>14</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:40	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:40	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Potassium</b>	<b>7.3</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:23	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/05/15 23:40	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:23	1
<b>Vanadium</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:40	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:40	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:22	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:22	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:20	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B68 (0-2)**

**Lab Sample ID: 500-100741-13**

**Date Collected: 09/02/15 12:05**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:51	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0061	mg/Kg	☼	09/03/15 17:30	09/04/15 13:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/03/15 19:40	09/03/15 21:33	1
pH	8.98		0.200	0.200	SU			09/09/15 14:34	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B69 (0-2)**

**Lab Sample ID: 500-100741-14**

**Date Collected: 09/02/15 11:50**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 86.6**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Bromomethane	<0.0044	*	0.0044	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/03/15 17:25	09/04/15 19:55	1
Dibromofluoromethane	105		75 - 120	09/03/15 17:25	09/04/15 19:55	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/03/15 17:25	09/04/15 19:55	1
Toluene-d8 (Surr)	113		75 - 122	09/03/15 17:25	09/04/15 19:55	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B69 (0-2)**

**Lab Sample ID: 500-100741-14**

**Date Collected: 09/02/15 11:50**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 86.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0081	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
<b>Fluoranthene</b>	<b>0.0082</b>	<b>J</b>	0.037	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B69 (0-2)**

**Lab Sample ID: 500-100741-14**

Date Collected: 09/02/15 11:50

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 86.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
<b>Pyrene</b>	<b>0.0083</b>	<b>J</b>	0.037	0.0074	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		25 - 119	09/04/15 07:30	09/10/15 02:26	1
2-Fluorophenol	106		25 - 110	09/04/15 07:30	09/10/15 02:26	1
Nitrobenzene-d5	104		25 - 115	09/04/15 07:30	09/10/15 02:26	1
Phenol-d5	108		31 - 110	09/04/15 07:30	09/10/15 02:26	1
Terphenyl-d14	116		36 - 134	09/04/15 07:30	09/10/15 02:26	1
2,4,6-Tribromophenol	53		35 - 137	09/04/15 07:30	09/10/15 02:26	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Arsenic</b>	<b>7.9</b>		0.55	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Barium</b>	<b>40</b>		0.55	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Beryllium</b>	<b>0.63</b>		0.22	0.047	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.032	mg/Kg	☼	09/04/15 11:00	09/05/15 20:18	1
<b>Chromium</b>	<b>17</b>		0.55	0.094	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Cobalt</b>	<b>9.6</b>		0.27	0.062	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Copper</b>	<b>23</b>		0.55	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Lead</b>	<b>12</b>		0.27	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Magnesium</b>	<b>31000</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Calcium</b>	<b>52000</b>	<b>B</b>	11	3.5	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Manganese</b>	<b>410</b>		0.55	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Nickel</b>	<b>24</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Thallium</b>	<b>0.74</b>		0.55	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Vanadium</b>	<b>21</b>		0.27	0.080	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Zinc</b>	<b>44</b>		1.1	0.35	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Potassium</b>	<b>2800</b>		27	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1
<b>Sodium</b>	<b>2300</b>		55	7.2	mg/Kg	☼	09/04/15 11:00	09/05/15 04:59	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B69 (0-2)**

**Lab Sample ID: 500-100741-14**

Date Collected: 09/02/15 11:50

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 86.6

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>570</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:34	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:34	1
<b>Magnesium</b>	<b>67</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:34	1
<b>Manganese</b>	<b>0.39</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
<b>Potassium</b>	<b>1.5</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:34	1
<b>Selenium</b>	<b>0.021</b>	J	0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:34	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:34	1
<b>Zinc</b>	<b>0.039</b>	J B	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 00:58	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Barium</b>	<b>0.32</b>	J	0.50	0.050	mg/L		09/04/15 11:00	09/04/15 23:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:44	1
<b>Calcium</b>	<b>58</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Chromium</b>	<b>0.021</b>	J	0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:44	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Copper</b>	<b>0.030</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Iron</b>	<b>16</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Magnesium</b>	<b>16</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:44	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:44	1
<b>Nickel</b>	<b>0.022</b>	J	0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Potassium</b>	<b>6.7</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/05/15 23:44	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:30	1
<b>Vanadium</b>	<b>0.029</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:44	1
<b>Zinc</b>	<b>0.16</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:44	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:25	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:25	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:38	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B69 (0-2)**

**Lab Sample ID: 500-100741-14**

**Date Collected: 09/02/15 11:50**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 86.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:53	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0062	mg/Kg	☼	09/03/15 17:30	09/04/15 13:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/03/15 19:40	09/03/15 21:34	1
pH	8.81		0.200	0.200	SU			09/09/15 14:42	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B70 (0-2)**

**Lab Sample ID: 500-100741-15**

**Date Collected: 09/02/15 11:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 76.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.034		0.034	0.0065	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Benzene	<0.0084		0.0084	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Bromodichloromethane	<0.0084		0.0084	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Bromoform	<0.0084		0.0084	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Bromomethane	<0.0084 *		0.0084	0.0031	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
2-Butanone (MEK)	<0.0084		0.0084	0.0030	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Carbon disulfide	<0.0084		0.0084	0.0031	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Carbon tetrachloride	<0.0084		0.0084	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Chlorobenzene	<0.0084		0.0084	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Chloroethane	<0.0084		0.0084	0.0035	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Chloroform	<0.0084		0.0084	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Chloromethane	<0.0084		0.0084	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
cis-1,2-Dichloroethene	<0.0084		0.0084	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
cis-1,3-Dichloropropene	<0.0084		0.0084	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Dibromochloromethane	<0.0084		0.0084	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,1-Dichloroethane	<0.0084		0.0084	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,2-Dichloroethane	<0.0084		0.0084	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,1-Dichloroethene	<0.0084		0.0084	0.0031	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,2-Dichloropropane	<0.0084		0.0084	0.0022	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,3-Dichloropropane, Total	<0.0084		0.0084	0.0024	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Ethylbenzene	<0.0084		0.0084	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
2-Hexanone	<0.0084		0.0084	0.0026	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Methylene Chloride	<0.0084		0.0084	0.0063	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
4-Methyl-2-pentanone (MIBK)	<0.0084		0.0084	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Methyl tert-butyl ether	<0.0084		0.0084	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Styrene	<0.0084		0.0084	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,1,2,2-Tetrachloroethane	<0.0084		0.0084	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Tetrachloroethene	<0.0084		0.0084	0.0017	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Toluene	<0.0084		0.0084	0.0029	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
trans-1,2-Dichloroethene	<0.0084		0.0084	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
trans-1,3-Dichloropropene	<0.0084		0.0084	0.0024	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,1,1-Trichloroethane	<0.0084		0.0084	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
1,1,2-Trichloroethane	<0.0084		0.0084	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Trichloroethene	<0.0084		0.0084	0.0023	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Vinyl acetate	<0.0084		0.0084	0.0022	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Vinyl chloride	<0.0084		0.0084	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1
Xylenes, Total	<0.017		0.017	0.0031	mg/Kg	☼	09/03/15 17:25	09/04/15 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122	09/03/15 17:25	09/04/15 20:20	1
Dibromofluoromethane	104		75 - 120	09/03/15 17:25	09/04/15 20:20	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/03/15 17:25	09/04/15 20:20	1
Toluene-d8 (Surr)	114		75 - 122	09/03/15 17:25	09/04/15 20:20	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B70 (0-2)**

**Lab Sample ID: 500-100741-15**

**Date Collected: 09/02/15 11:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 76.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,4-Dinitrophenol	<0.86	*	0.86	0.75	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Fluoranthene	<0.043		0.043	0.0079	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2-Methylnaphthalene	<0.043		0.043	0.0079	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
3 & 4 Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B70 (0-2)**

**Lab Sample ID: 500-100741-15**

**Date Collected: 09/02/15 11:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 76.5**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Phenol	<0.22		0.22	0.095	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
Pyrene	<0.043		0.043	0.0085	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	09/04/15 07:30	09/10/15 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	09/04/15 07:30	09/10/15 05:31	1
2-Fluorophenol	93		25 - 110	09/04/15 07:30	09/10/15 05:31	1
Nitrobenzene-d5	91		25 - 115	09/04/15 07:30	09/10/15 05:31	1
Phenol-d5	71		31 - 110	09/04/15 07:30	09/10/15 05:31	1
Terphenyl-d14	135	X	36 - 134	09/04/15 07:30	09/10/15 05:31	1
2,4,6-Tribromophenol	54		35 - 137	09/04/15 07:30	09/10/15 05:31	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Arsenic</b>	<b>8.9</b>		0.65	0.30	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Barium</b>	<b>62</b>		0.65	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Beryllium</b>	<b>0.74</b>		0.26	0.056	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Cadmium</b>	<b>0.64</b>		0.13	0.038	mg/Kg	☼	09/04/15 11:00	09/05/15 20:23	1
<b>Chromium</b>	<b>20</b>		0.65	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Cobalt</b>	<b>8.8</b>		0.32	0.073	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Copper</b>	<b>28</b>		0.65	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	13	5.0	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Lead</b>	<b>90</b>		0.32	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Magnesium</b>	<b>22000</b>	<b>B</b>	6.5	2.6	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Calcium</b>	<b>32000</b>	<b>B</b>	13	4.2	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Manganese</b>	<b>390</b>		0.65	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.65	0.18	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Selenium</b>	<b>0.42</b>	<b>J</b>	0.65	0.32	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
Silver	<0.32		0.32	0.076	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Thallium</b>	<b>0.75</b>		0.65	0.32	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Vanadium</b>	<b>25</b>		0.32	0.095	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Zinc</b>	<b>75</b>		1.3	0.41	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Potassium</b>	<b>3100</b>		32	5.3	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1
<b>Sodium</b>	<b>1600</b>		65	8.6	mg/Kg	☼	09/04/15 11:00	09/05/15 05:22	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:47	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B70 (0-2)**

**Lab Sample ID: 500-100741-15**

**Date Collected: 09/02/15 11:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 76.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/04/15 12:00	09/06/15 01:03	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
<b>Iron</b>	<b>0.43</b>		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/04/15 12:00	09/08/15 14:57	1
<b>Magnesium</b>	<b>160</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:47	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
<b>Potassium</b>	<b>3.7</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:47	1
<b>Selenium</b>	<b>0.020</b>	<b>J</b>	0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:47	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:47	1
<b>Zinc</b>	<b>0.26</b>	<b>B</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 01:03	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 11:00	09/04/15 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 11:00	09/05/15 23:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 11:00	09/05/15 23:48	1
<b>Calcium</b>	<b>19</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Chromium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Copper</b>	<b>0.025</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Iron</b>	<b>13</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Lead</b>	<b>0.032</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Magnesium</b>	<b>7.3</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 23:48	1
<b>Manganese</b>	<b>0.097</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:48	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Potassium</b>	<b>6.6</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/05/15 23:48	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:36	1
<b>Vanadium</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/05/15 23:48	1
<b>Zinc</b>	<b>0.16</b>		0.10	0.020	mg/L		09/04/15 11:00	09/05/15 23:48	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:29	1
Thallium	<0.0020	<sup>^</sup>	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:29	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:43	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:56	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B70 (0-2)**

**Lab Sample ID: 500-100741-15**

**Date Collected: 09/02/15 11:35**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 76.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 13:55	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.021	0.0074	mg/Kg	☼	09/03/15 17:30	09/04/15 13:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.64		0.64	0.21	mg/Kg	☼	09/03/15 19:40	09/03/15 21:36	1
pH	8.73		0.200	0.200	SU			09/09/15 14:50	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B76 (0-2)**

**Lab Sample ID: 500-100741-16**

**Date Collected: 09/02/15 09:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 87.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.42		0.42	0.11	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Benzene	<0.021		0.021	0.0062	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Bromodichloromethane	<0.17		0.17	0.028	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Bromoform	<0.17		0.17	0.037	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Bromomethane	<0.17		0.17	0.057	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
2-Butanone (MEK)	<0.42		0.42	0.12	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Carbon disulfide	<0.42		0.42	0.036	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Carbon tetrachloride	<0.084		0.084	0.022	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Chlorobenzene	<0.084		0.084	0.012	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Chloroethane	<0.17		0.17	0.036	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Chloroform	<0.084		0.084	0.017	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Chloromethane	<0.17		0.17	0.039	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
cis-1,2-Dichloroethene	<0.084		0.084	0.010	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
cis-1,3-Dichloropropene	<0.084		0.084	0.015	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Dibromochloromethane	<0.17		0.17	0.029	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,1-Dichloroethane	<0.084		0.084	0.016	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,2-Dichloroethane	<0.084		0.084	0.024	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,1-Dichloroethene	<0.084		0.084	0.026	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,2-Dichloropropane	<0.084		0.084	0.016	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,3-Dichloropropene, Total	<0.084		0.084	0.015	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Ethylbenzene	<0.021		0.021	0.011	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
2-Hexanone	<0.42		0.42	0.047	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Methylene Chloride	<0.42		0.42	0.057	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
4-Methyl-2-pentanone (MIBK)	<0.42		0.42	0.028	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Methyl tert-butyl ether	<0.17		0.17	0.036	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Styrene	<0.084		0.084	0.0083	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,1,2,2-Tetrachloroethane	<0.084		0.084	0.020	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Tetrachloroethene	<0.084		0.084	0.014	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Toluene	<0.021		0.021	0.0096	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
trans-1,2-Dichloroethene	<0.084		0.084	0.021	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
trans-1,3-Dichloropropene	<0.084		0.084	0.017	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,1,1-Trichloroethane	<0.084		0.084	0.017	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
1,1,2-Trichloroethane	<0.084		0.084	0.023	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Trichloroethene	<0.042		0.042	0.016	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Vinyl acetate	<0.17		0.17	0.028	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Vinyl chloride	<0.021		0.021	0.0087	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50
Xylenes, Total	<0.042		0.042	0.0057	mg/Kg	☼	09/02/15 09:55	09/10/15 15:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120	09/02/15 09:55	09/10/15 15:53	50
Dibromofluoromethane	109		75 - 120	09/02/15 09:55	09/10/15 15:53	50
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	09/02/15 09:55	09/10/15 15:53	50
Toluene-d8 (Surr)	105		75 - 120	09/02/15 09:55	09/10/15 15:53	50

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	J	0.37	0.066	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Acenaphthylene	<0.37		0.37	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Anthracene	0.49		0.37	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Benzo[a]anthracene	2.2		0.37	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B76 (0-2)**

**Lab Sample ID: 500-100741-16**

**Date Collected: 09/02/15 09:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 87.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>2.6</b>		0.37	0.071	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Benzo[b]fluoranthene</b>	<b>4.9</b>		0.37	0.079	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Benzo[g,h,i]perylene</b>	<b>1.1</b>		0.37	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Benzo[k]fluoranthene</b>	<b>1.6</b>		0.37	0.11	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Bis(2-chloroethoxy)methane	<1.9		1.9	0.38	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Bis(2-chloroethyl)ether	<1.9		1.9	0.55	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Bis(2-ethylhexyl) phthalate	<1.9		1.9	0.67	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
4-Bromophenyl phenyl ether	<1.9		1.9	0.49	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Butyl benzyl phthalate	<1.9		1.9	0.70	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Carbazole	<1.9		1.9	0.92	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
4-Chloroaniline	<7.4		7.4	1.7	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
4-Chloro-3-methylphenol	<3.7		3.7	1.3	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2-Chloronaphthalene	<1.9		1.9	0.41	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2-Chlorophenol	<1.9		1.9	0.63	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
4-Chlorophenyl phenyl ether	<1.9		1.9	0.43	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Chrysene</b>	<b>2.9</b>		0.37	0.10	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Dibenz(a,h)anthracene</b>	<b>0.28 J</b>		0.37	0.071	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Dibenzofuran	<1.9		1.9	0.43	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
1,2-Dichlorobenzene	<1.9		1.9	0.44	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
1,3-Dichlorobenzene	<1.9		1.9	0.41	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
1,4-Dichlorobenzene	<1.9		1.9	0.47	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
3,3'-Dichlorobenzidine	<1.9		1.9	0.52	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,4-Dichlorophenol	<3.7		3.7	0.87	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Diethyl phthalate	<1.9		1.9	0.62	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,4-Dimethylphenol	<3.7		3.7	1.4	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Dimethyl phthalate	<1.9		1.9	0.48	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Di-n-butyl phthalate	<1.9		1.9	0.56	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
4,6-Dinitro-2-methylphenol	<7.4		7.4	3.0	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,4-Dinitrophenol	<7.4 *		7.4	6.5	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,4-Dinitrotoluene	<1.9		1.9	0.59	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,6-Dinitrotoluene	<1.9		1.9	0.72	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Di-n-octyl phthalate	<1.9		1.9	0.60	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Fluoranthene</b>	<b>5.5</b>		0.37	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Fluorene</b>	<b>0.19 J</b>		0.37	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Hexachlorobenzene	<0.74		0.74	0.085	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Hexachlorobutadiene	<1.9		1.9	0.58	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Hexachlorocyclopentadiene	<7.4		7.4	2.1	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Hexachloroethane	<1.9		1.9	0.56	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>1.2</b>		0.37	0.095	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Isophorone	<1.9		1.9	0.41	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2-Methylnaphthalene	<0.37		0.37	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2-Methylphenol	<1.9		1.9	0.59	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
3 & 4 Methylphenol	<1.9		1.9	0.61	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Naphthalene	<0.37		0.37	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2-Nitroaniline	<1.9		1.9	0.50	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
3-Nitroaniline	<3.7		3.7	1.1	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
4-Nitroaniline	<3.7		3.7	1.5	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Nitrobenzene	<0.37		0.37	0.092	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2-Nitrophenol	<3.7		3.7	0.87	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B76 (0-2)**

**Lab Sample ID: 500-100741-16**

Date Collected: 09/02/15 09:55

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 87.3

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<7.4		7.4	3.5	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
N-Nitrosodi-n-propylamine	<1.9		1.9	0.45	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
N-Nitrosodiphenylamine	<1.9		1.9	0.43	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,2'-oxybis[1-chloropropane]	<1.9		1.9	0.43	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Pentachlorophenol	<7.4		7.4	5.9	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Phenanthrene</b>	<b>3.2</b>		0.37	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
Phenol	<1.9		1.9	0.82	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
<b>Pyrene</b>	<b>7.2</b>		0.37	0.073	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
1,2,4-Trichlorobenzene	<1.9		1.9	0.40	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,4,5-Trichlorophenol	<3.7		3.7	0.84	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10
2,4,6-Trichlorophenol	<3.7		3.7	1.3	mg/Kg	☼	09/04/15 07:30	09/10/15 20:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		25 - 119	09/04/15 07:30	09/10/15 20:30	10
2-Fluorophenol	106		25 - 110	09/04/15 07:30	09/10/15 20:30	10
Nitrobenzene-d5	99		25 - 115	09/04/15 07:30	09/10/15 20:30	10
Phenol-d5	119	X	31 - 110	09/04/15 07:30	09/10/15 20:30	10
Terphenyl-d14	173	X	36 - 134	09/04/15 07:30	09/10/15 20:30	10
2,4,6-Tribromophenol	90		35 - 137	09/04/15 07:30	09/10/15 20:30	10

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.28</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Arsenic</b>	<b>3.5</b>		0.54	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Barium</b>	<b>77</b>		0.54	0.098	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Beryllium</b>	<b>0.56</b>		0.21	0.046	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Cadmium</b>	<b>0.39</b>		0.11	0.031	mg/Kg	☼	09/04/15 11:00	09/05/15 20:27	1
<b>Chromium</b>	<b>12</b>		0.54	0.092	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Cobalt</b>	<b>2.5</b>		0.27	0.061	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Copper</b>	<b>25</b>		0.54	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Iron</b>	<b>8400</b>	<b>B</b>	11	4.1	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Lead</b>	<b>51</b>		0.27	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Magnesium</b>	<b>40000</b>	<b>B</b>	5.4	2.2	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Calcium</b>	<b>130000</b>	<b>B</b>	110	35	mg/Kg	☼	09/04/15 11:00	09/05/15 20:32	10
<b>Manganese</b>	<b>430</b>		0.54	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Nickel</b>	<b>8.1</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Silver</b>	<b>0.067</b>	<b>J</b>	0.27	0.063	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Thallium</b>	<b>0.39</b>	<b>J</b>	0.54	0.26	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Vanadium</b>	<b>13</b>		0.27	0.078	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Zinc</b>	<b>110</b>		1.1	0.34	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Potassium</b>	<b>1000</b>		27	4.4	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1
<b>Sodium</b>	<b>340</b>		54	7.1	mg/Kg	☼	09/04/15 11:00	09/05/15 05:29	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B76 (0-2)**

**Lab Sample ID: 500-100741-16**

**Date Collected: 09/02/15 09:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 87.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>710</b>		25	5.0	mg/L		09/04/15 12:00	09/06/15 01:14	10
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:52	1
Lead	<0.0075	<b>^</b>	0.0075	0.0075	mg/L		09/04/15 12:00	09/04/15 23:52	1
<b>Magnesium</b>	<b>14</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:52	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
<b>Potassium</b>	<b>3.3</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:52	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:52	1
<b>Zinc</b>	<b>0.082</b>	<b>J B</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 01:09	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 11:00	09/04/15 23:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 11:00	09/06/15 00:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 11:00	09/06/15 00:00	1
<b>Calcium</b>	<b>32</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:00	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Copper</b>	<b>0.025</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Iron</b>	<b>5.4</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Lead</b>	<b>0.039</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Magnesium</b>	<b>5.5</b>		2.5	0.50	mg/L		09/04/15 11:00	09/06/15 00:00	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:00	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Potassium</b>	<b>2.3</b>	<b>J</b>	2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:43	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/06/15 00:00	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:43	1
<b>Vanadium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:00	1
<b>Zinc</b>	<b>0.17</b>		0.10	0.020	mg/L		09/04/15 11:00	09/06/15 00:00	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:33	1
Thallium	<0.0020	<b>^</b>	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:33	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:48	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 12:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B76 (0-2)**

**Lab Sample ID: 500-100741-16**

**Date Collected: 09/02/15 09:55**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 87.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 14:01	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083		0.017	0.0061	mg/Kg	☼	09/03/15 17:30	09/04/15 13:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.24	J	0.53	0.17	mg/Kg	☼	09/03/15 19:40	09/03/15 21:36	1
pH	8.20		0.200	0.200	SU			09/09/15 14:57	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B77 (0-2)**

**Lab Sample ID: 500-100741-17**

**Date Collected: 09/02/15 09:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0044	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Benzene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Bromodichloromethane	<0.0057		0.0057	0.00096	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Bromoform	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Bromomethane	<0.0057	*	0.0057	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Carbon disulfide	<0.0057		0.0057	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Carbon tetrachloride	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Chlorobenzene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Chloroethane	<0.0057		0.0057	0.0024	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Chloroform	<0.0057		0.0057	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Chloromethane	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Dibromochloromethane	<0.0057		0.0057	0.00065	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,1-Dichloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,1-Dichloroethene	<0.0057		0.0057	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,2-Dichloropropane	<0.0057		0.0057	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,3-Dichloropropane, Total	<0.0057		0.0057	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Ethylbenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Methylene Chloride	<0.0057		0.0057	0.0043	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Methyl tert-butyl ether	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Styrene	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Tetrachloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Toluene	<0.0057		0.0057	0.0020	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Trichloroethene	<0.0057		0.0057	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Vinyl acetate	<0.0057		0.0057	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Vinyl chloride	<0.0057		0.0057	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/03/15 17:25	09/04/15 21:10	1
Dibromofluoromethane	101		75 - 120	09/03/15 17:25	09/04/15 21:10	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/03/15 17:25	09/04/15 21:10	1
Toluene-d8 (Surr)	115		75 - 122	09/03/15 17:25	09/04/15 21:10	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.092	J	0.19	0.035	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Acenaphthylene	<0.19		0.19	0.025	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Anthracene	0.25		0.19	0.032	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Benzo[a]anthracene	1.1		0.19	0.026	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B77 (0-2)**

**Lab Sample ID: 500-100741-17**

**Date Collected: 09/02/15 09:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>1.3</b>		0.19	0.037	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Benzo[b]fluoranthene</b>	<b>2.2</b>		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Benzo[g,h,i]perylene</b>	<b>0.47</b>		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Benzo[k]fluoranthene</b>	<b>0.93</b>		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Bis(2-chloroethoxy)methane	<0.97		0.97	0.20	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Bis(2-chloroethyl)ether	<0.97		0.97	0.29	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Bis(2-ethylhexyl) phthalate	<0.97		0.97	0.35	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
4-Bromophenyl phenyl ether	<0.97		0.97	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Butyl benzyl phthalate	<0.97		0.97	0.37	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Carbazole	<0.97		0.97	0.48	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
4-Chloroaniline	<3.9		3.9	0.90	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
4-Chloro-3-methylphenol	<1.9		1.9	0.66	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2-Chloronaphthalene	<0.97		0.97	0.21	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2-Chlorophenol	<0.97		0.97	0.33	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
4-Chlorophenyl phenyl ether	<0.97		0.97	0.23	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Chrysene</b>	<b>1.4</b>		0.19	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Dibenz(a,h)anthracene</b>	<b>0.13 J</b>		0.19	0.037	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Dibenzofuran	<0.97		0.97	0.23	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
1,2-Dichlorobenzene	<0.97		0.97	0.23	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
1,3-Dichlorobenzene	<0.97		0.97	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
1,4-Dichlorobenzene	<0.97		0.97	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
3,3'-Dichlorobenzidine	<0.97		0.97	0.27	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,4-Dichlorophenol	<1.9		1.9	0.46	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Diethyl phthalate	<0.97		0.97	0.33	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,4-Dimethylphenol	<1.9		1.9	0.73	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Dimethyl phthalate	<0.97		0.97	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Di-n-butyl phthalate	<0.97		0.97	0.29	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
4,6-Dinitro-2-methylphenol	<3.9		3.9	1.5	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,4-Dinitrophenol	<3.9 *		3.9	3.4	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,4-Dinitrotoluene	<0.97		0.97	0.31	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,6-Dinitrotoluene	<0.97		0.97	0.38	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Di-n-octyl phthalate	<0.97		0.97	0.31	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Fluoranthene</b>	<b>2.7</b>		0.19	0.036	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Fluorene</b>	<b>0.093 J</b>		0.19	0.027	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Hexachlorobenzene	<0.39		0.39	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Hexachlorobutadiene	<0.97		0.97	0.30	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Hexachlorocyclopentadiene	<3.9		3.9	1.1	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Hexachloroethane	<0.97		0.97	0.29	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.53</b>		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Isophorone	<0.97		0.97	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2-Methylnaphthalene	<0.19		0.19	0.035	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2-Methylphenol	<0.97		0.97	0.31	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
3 & 4 Methylphenol	<0.97		0.97	0.32	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Naphthalene	<0.19		0.19	0.030	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2-Nitroaniline	<0.97		0.97	0.26	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
3-Nitroaniline	<1.9		1.9	0.60	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
4-Nitroaniline	<1.9		1.9	0.81	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Nitrobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2-Nitrophenol	<1.9		1.9	0.46	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B77 (0-2)**

**Lab Sample ID: 500-100741-17**

Date Collected: 09/02/15 09:40

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.9

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<3.9		3.9	1.8	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
N-Nitrosodi-n-propylamine	<0.97		0.97	0.24	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
N-Nitrosodiphenylamine	<0.97		0.97	0.23	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,2'-oxybis[1-chloropropane]	<0.97		0.97	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Pentachlorophenol	<3.9		3.9	3.1	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Phenanthrene</b>	<b>1.5</b>		0.19	0.027	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
Phenol	<0.97		0.97	0.43	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
<b>Pyrene</b>	<b>3.3</b>		0.19	0.038	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
1,2,4-Trichlorobenzene	<0.97		0.97	0.21	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,4,5-Trichlorophenol	<1.9		1.9	0.44	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5
2,4,6-Trichlorophenol	<1.9		1.9	0.66	mg/Kg	☼	09/04/15 07:30	09/10/15 06:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	45		25 - 119	09/04/15 07:30	09/10/15 06:17	5
2-Fluorophenol	47		25 - 110	09/04/15 07:30	09/10/15 06:17	5
Nitrobenzene-d5	44		25 - 115	09/04/15 07:30	09/10/15 06:17	5
Phenol-d5	54		31 - 110	09/04/15 07:30	09/10/15 06:17	5
Terphenyl-d14	76		36 - 134	09/04/15 07:30	09/10/15 06:17	5
2,4,6-Tribromophenol	37		35 - 137	09/04/15 07:30	09/10/15 06:17	5

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.42</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Arsenic</b>	<b>6.9</b>		0.58	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Barium</b>	<b>67</b>		0.58	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Beryllium</b>	<b>0.57</b>		0.23	0.050	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Cadmium</b>	<b>0.76</b>		0.12	0.034	mg/Kg	☼	09/04/15 11:00	09/05/15 20:44	1
<b>Chromium</b>	<b>14</b>		0.58	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Cobalt</b>	<b>6.5</b>		0.29	0.066	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Lead</b>	<b>120</b>		0.29	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Calcium</b>	<b>32000</b>	<b>B</b>	12	3.7	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Manganese</b>	<b>420</b>		0.58	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Nickel</b>	<b>16</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Thallium</b>	<b>0.73</b>		0.58	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Vanadium</b>	<b>23</b>		0.29	0.085	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Zinc</b>	<b>67</b>		1.2	0.37	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Potassium</b>	<b>1700</b>		29	4.7	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1
<b>Sodium</b>	<b>1700</b>		58	7.7	mg/Kg	☼	09/04/15 11:00	09/05/15 05:35	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/04/15 23:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/04/15 23:58	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		09/04/15 12:00	09/04/15 23:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B77 (0-2)**

**Lab Sample ID: 500-100741-17**

**Date Collected: 09/02/15 09:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>320</b>		2.5	0.50	mg/L		09/04/15 12:00	09/06/15 01:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/04/15 23:58	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		09/04/15 12:00	09/08/15 15:01	1
<b>Magnesium</b>	<b>150</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:58	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/04/15 12:00	09/04/15 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/04/15 23:58	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/04/15 23:58	1
<b>Zinc</b>	<b>0.45</b>	<b>B</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 01:18	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.033</b>	<b>J</b>	0.050	0.010	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Beryllium</b>	<b>0.0045</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/06/15 00:04	1
<b>Cadmium</b>	<b>0.0056</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/06/15 00:04	1
<b>Calcium</b>	<b>32</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:04	1
<b>Cobalt</b>	<b>0.029</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Copper</b>	<b>0.15</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Lead</b>	<b>0.88</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		09/04/15 11:00	09/06/15 00:04	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:04	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Potassium</b>	<b>19</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/06/15 00:04	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:50	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:04	1
<b>Zinc</b>	<b>0.79</b>		0.10	0.020	mg/L		09/04/15 11:00	09/06/15 00:04	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:37	1
Thallium	<0.0020	<sup>^</sup>	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:37	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:52	1
<b>Thallium</b>	<b>0.0026</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:52	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 13:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B77 (0-2)**

**Lab Sample ID: 500-100741-17**

**Date Collected: 09/02/15 09:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 14:03	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.042</b>		0.017	0.0061	mg/Kg	☼	09/03/15 17:30	09/04/15 13:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/03/15 19:40	09/03/15 21:37	1
pH	<b>8.94</b>		0.200	0.200	SU			09/09/15 15:05	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B78 (0-2)**

**Lab Sample ID: 500-100741-18**

**Date Collected: 09/02/15 09:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 78.8**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	09/03/15 17:25	09/04/15 21:35	1
Dibromofluoromethane	100		75 - 120	09/03/15 17:25	09/04/15 21:35	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	09/03/15 17:25	09/04/15 21:35	1
Toluene-d8 (Surr)	112		75 - 122	09/03/15 17:25	09/04/15 21:35	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.21		0.21	0.038	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Acenaphthylene	<0.21		0.21	0.028	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Anthracene</b>	<b>0.066</b>	<b>J</b>	0.21	0.035	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Benzo[a]anthracene</b>	<b>0.31</b>		0.21	0.028	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B78 (0-2)**

**Lab Sample ID: 500-100741-18**

**Date Collected: 09/02/15 09:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 78.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.35</b>		0.21	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Benzo[b]fluoranthene</b>	<b>0.47</b>		0.21	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Benzo[g,h,i]perylene	<0.21		0.21	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Benzo[k]fluoranthene</b>	<b>0.32</b>		0.21	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Bis(2-chloroethoxy)methane	<1.1		1.1	0.21	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Bis(2-chloroethyl)ether	<1.1		1.1	0.32	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Bis(2-ethylhexyl) phthalate	<1.1		1.1	0.38	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
4-Bromophenyl phenyl ether	<1.1		1.1	0.28	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Butyl benzyl phthalate	<1.1		1.1	0.40	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Carbazole	<1.1		1.1	0.53	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
4-Chloroaniline	<4.2		4.2	0.99	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
4-Chloro-3-methylphenol	<2.1		2.1	0.72	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2-Chloronaphthalene	<1.1		1.1	0.23	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2-Chlorophenol	<1.1		1.1	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
4-Chlorophenyl phenyl ether	<1.1		1.1	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Chrysene</b>	<b>0.42</b>		0.21	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Dibenz(a,h)anthracene	<0.21		0.21	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Dibenzofuran	<1.1		1.1	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
1,2-Dichlorobenzene	<1.1		1.1	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
1,3-Dichlorobenzene	<1.1		1.1	0.24	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
1,4-Dichlorobenzene	<1.1		1.1	0.27	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
3,3'-Dichlorobenzidine	<1.1		1.1	0.29	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,4-Dichlorophenol	<2.1		2.1	0.50	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Diethyl phthalate	<1.1		1.1	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,4-Dimethylphenol	<2.1		2.1	0.80	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Dimethyl phthalate	<1.1		1.1	0.28	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Di-n-butyl phthalate	<1.1		1.1	0.32	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
4,6-Dinitro-2-methylphenol	<4.2		4.2	1.7	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,4-Dinitrophenol	<4.2 *		4.2	3.7	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,4-Dinitrotoluene	<1.1		1.1	0.33	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,6-Dinitrotoluene	<1.1		1.1	0.41	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Di-n-octyl phthalate	<1.1		1.1	0.34	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Fluoranthene</b>	<b>0.58</b>		0.21	0.039	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Fluorene	<0.21		0.21	0.030	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Hexachlorobenzene	<0.42		0.42	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Hexachlorobutadiene	<1.1		1.1	0.33	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Hexachlorocyclopentadiene	<4.2		4.2	1.2	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Hexachloroethane	<1.1		1.1	0.32	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Indeno[1,2,3-cd]pyrene	<0.21		0.21	0.055	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Isophorone	<1.1		1.1	0.24	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2-Methylnaphthalene	<0.21		0.21	0.039	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2-Methylphenol	<1.1		1.1	0.34	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
3 & 4 Methylphenol	<1.1		1.1	0.35	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Naphthalene	<0.21		0.21	0.032	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2-Nitroaniline	<1.1		1.1	0.28	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
3-Nitroaniline	<2.1		2.1	0.65	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
4-Nitroaniline	<2.1		2.1	0.88	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Nitrobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2-Nitrophenol	<2.1		2.1	0.50	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B78 (0-2)**

**Lab Sample ID: 500-100741-18**

Date Collected: 09/02/15 09:30

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 78.8

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<4.2		4.2	2.0	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
N-Nitrosodi-n-propylamine	<1.1		1.1	0.26	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
N-Nitrosodiphenylamine	<1.1		1.1	0.25	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,2'-oxybis[1-chloropropane]	<1.1		1.1	0.24	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Pentachlorophenol	<4.2		4.2	3.4	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Phenanthrene</b>	<b>0.31</b>		0.21	0.029	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
Phenol	<1.1		1.1	0.47	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
<b>Pyrene</b>	<b>0.84</b>		0.21	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
1,2,4-Trichlorobenzene	<1.1		1.1	0.23	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,4,5-Trichlorophenol	<2.1		2.1	0.48	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5
2,4,6-Trichlorophenol	<2.1		2.1	0.72	mg/Kg	☼	09/04/15 07:30	09/10/15 06:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/04/15 07:30	09/10/15 06:40	5
2-Fluorophenol	91		25 - 110	09/04/15 07:30	09/10/15 06:40	5
Nitrobenzene-d5	83		25 - 115	09/04/15 07:30	09/10/15 06:40	5
Phenol-d5	104		31 - 110	09/04/15 07:30	09/10/15 06:40	5
Terphenyl-d14	150	X	36 - 134	09/04/15 07:30	09/10/15 06:40	5
2,4,6-Tribromophenol	76		35 - 137	09/04/15 07:30	09/10/15 06:40	5

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Arsenic</b>	<b>8.2</b>		0.59	0.27	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Barium</b>	<b>94</b>		0.59	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Beryllium</b>	<b>0.59</b>		0.24	0.051	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Cadmium</b>	<b>0.83</b>		0.12	0.034	mg/Kg	☼	09/04/15 11:00	09/05/15 20:49	1
<b>Chromium</b>	<b>16</b>		0.59	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Cobalt</b>	<b>8.3</b>		0.30	0.067	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Copper</b>	<b>34</b>		0.59	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Lead</b>	<b>77</b>		0.30	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Magnesium</b>	<b>18000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Calcium</b>	<b>28000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Manganese</b>	<b>670</b>		0.59	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Nickel</b>	<b>18</b>	<b>B</b>	0.59	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Selenium</b>	<b>0.32</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Thallium</b>	<b>0.69</b>		0.59	0.29	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Vanadium</b>	<b>22</b>		0.30	0.086	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Zinc</b>	<b>68</b>		1.2	0.37	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Potassium</b>	<b>1800</b>		30	4.8	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1
<b>Sodium</b>	<b>2400</b>		59	7.8	mg/Kg	☼	09/04/15 11:00	09/05/15 05:42	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/05/15 00:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/05/15 00:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/05/15 00:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B78 (0-2)**

**Lab Sample ID: 500-100741-18**

**Date Collected: 09/02/15 09:30**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 78.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		2.5	0.50	mg/L		09/04/15 12:00	09/06/15 01:23	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/05/15 00:03	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/05/15 00:03	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		09/04/15 12:00	09/05/15 00:03	1
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
<b>Potassium</b>	<b>3.8</b>		2.5	0.50	mg/L		09/04/15 12:00	09/05/15 00:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/05/15 00:03	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:03	1
<b>Zinc</b>	<b>0.087</b>	<b>J B</b>	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 01:23	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.038</b>	<b>J</b>	0.050	0.010	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Barium</b>	<b>0.75</b>		0.50	0.050	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/06/15 00:08	1
<b>Cadmium</b>	<b>0.0059</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/06/15 00:08	1
<b>Calcium</b>	<b>33</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:08	1
<b>Cobalt</b>	<b>0.038</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Lead</b>	<b>0.48</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Magnesium</b>	<b>32</b>		2.5	0.50	mg/L		09/04/15 11:00	09/06/15 00:08	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:08	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Potassium</b>	<b>24</b>		2.5	0.50	mg/L		09/04/15 11:00	09/04/15 23:57	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/06/15 00:08	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/04/15 23:57	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:08	1
<b>Zinc</b>	<b>0.97</b>		0.10	0.020	mg/L		09/04/15 11:00	09/06/15 00:08	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:40	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:40	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 20:57	1
<b>Thallium</b>	<b>0.0032</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 20:57	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 13:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B78 (0-2)**

**Lab Sample ID: 500-100741-18**

Date Collected: 09/02/15 09:30

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 78.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 14:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0065	mg/Kg	☼	09/03/15 17:30	09/04/15 13:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/03/15 19:40	09/03/15 21:37	1
pH	8.71		0.200	0.200	SU			09/09/15 15:13	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B79 (0-2)**

**Lab Sample ID: 500-100741-19**

Date Collected: 09/02/15 08:40

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 81.6

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Bromomethane	<0.0052	*	0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Methylene Chloride	<0.0052		0.0052	0.0040	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	09/03/15 17:25	09/04/15 22:00	1
Dibromofluoromethane	102		75 - 120	09/03/15 17:25	09/04/15 22:00	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/03/15 17:25	09/04/15 22:00	1
Toluene-d8 (Surr)	113		75 - 122	09/03/15 17:25	09/04/15 22:00	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B79 (0-2)**

**Lab Sample ID: 500-100741-19**

**Date Collected: 09/02/15 08:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.033</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
<b>Benzo[b]fluoranthene</b>	<b>0.071</b>		0.039	0.0086	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
<b>Benzo[k]fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.039	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
<b>Chrysene</b>	<b>0.044</b>		0.039	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
<b>Fluoranthene</b>	<b>0.060</b>		0.039	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B79 (0-2)**

**Lab Sample ID: 500-100741-19**

**Date Collected: 09/02/15 08:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
<b>Phenanthrene</b>	<b>0.026</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
<b>Pyrene</b>	<b>0.067</b>		0.039	0.0079	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		25 - 119	09/04/15 07:30	09/10/15 17:01	1
2-Fluorophenol	99		25 - 110	09/04/15 07:30	09/10/15 17:01	1
Nitrobenzene-d5	79		25 - 115	09/04/15 07:30	09/10/15 17:01	1
Phenol-d5	106		31 - 110	09/04/15 07:30	09/10/15 17:01	1
Terphenyl-d14	139	X	36 - 134	09/04/15 07:30	09/10/15 17:01	1
2,4,6-Tribromophenol	106		35 - 137	09/04/15 07:30	09/10/15 17:01	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Arsenic</b>	<b>4.5</b>		0.60	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Barium</b>	<b>74</b>		0.60	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Beryllium</b>	<b>0.58</b>		0.24	0.052	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Cadmium</b>	<b>0.48</b>		0.12	0.035	mg/Kg	☼	09/04/15 11:00	09/05/15 20:53	1
<b>Chromium</b>	<b>15</b>		0.60	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Cobalt</b>	<b>6.4</b>		0.30	0.068	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Copper</b>	<b>20</b>		0.60	0.13	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Iron</b>	<b>13000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Lead</b>	<b>22</b>		0.30	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Magnesium</b>	<b>15000</b>	<b>B</b>	6.0	2.4	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Calcium</b>	<b>24000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Manganese</b>	<b>320</b>		0.60	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Nickel</b>	<b>14</b>	<b>B</b>	0.60	0.16	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Selenium</b>	<b>0.45</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Vanadium</b>	<b>20</b>		0.30	0.088	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Zinc</b>	<b>55</b>		1.2	0.38	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Potassium</b>	<b>1400</b>		30	4.9	mg/Kg	☼	09/04/15 11:00	09/05/15 05:49	1
<b>Sodium</b>	<b>3000</b>		60	7.9	mg/Kg	☼	09/04/15 11:00	09/05/15 20:53	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/05/15 00:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/05/15 00:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/05/15 00:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B79 (0-2)**

**Lab Sample ID: 500-100741-19**

**Date Collected: 09/02/15 08:40**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 81.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		2.5	0.50	mg/L		09/04/15 12:00	09/06/15 01:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/05/15 00:08	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/05/15 00:08	1
<b>Magnesium</b>	<b>150</b>		2.5	0.50	mg/L		09/04/15 12:00	09/05/15 00:08	1
<b>Manganese</b>	<b>0.085</b>		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
<b>Potassium</b>	<b>1.5</b>	J	2.5	0.50	mg/L		09/04/15 12:00	09/05/15 00:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 12:00	09/05/15 00:08	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:08	1
<b>Zinc</b>	<b>0.29</b>	B	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 01:34	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.037</b>	J	0.050	0.010	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Barium</b>	<b>0.71</b>		0.50	0.050	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Beryllium</b>	<b>0.0053</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/06/15 00:12	1
<b>Cadmium</b>	<b>0.0057</b>		0.0050	0.0020	mg/L		09/04/15 11:00	09/06/15 00:12	1
<b>Calcium</b>	<b>28</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:12	1
<b>Cobalt</b>	<b>0.047</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Copper</b>	<b>0.16</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Iron</b>	<b>140</b>		0.20	0.20	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Magnesium</b>	<b>27</b>		2.5	0.50	mg/L		09/04/15 11:00	09/06/15 00:12	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:12	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Potassium</b>	<b>19</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 00:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/06/15 00:12	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:04	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:12	1
<b>Zinc</b>	<b>0.65</b>		0.10	0.020	mg/L		09/04/15 11:00	09/06/15 00:12	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:44	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:44	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 21:02	1
<b>Thallium</b>	<b>0.0035</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 21:02	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 13:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-7-B79 (0-2)**

**Lab Sample ID: 500-100741-19**

Date Collected: 09/02/15 08:40

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 81.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 14:07	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0067	mg/Kg	☼	09/03/15 17:30	09/04/15 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/03/15 19:40	09/03/15 21:38	1
pH	8.50		0.200	0.200	SU			09/09/15 15:20	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-10-B01 (0-1)**

**Lab Sample ID: 500-100741-20**

**Date Collected: 09/02/15 14:15**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0015	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/03/15 17:25	09/04/15 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/03/15 17:25	09/04/15 22:25	1
Dibromofluoromethane	99		75 - 120	09/03/15 17:25	09/04/15 22:25	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/03/15 17:25	09/04/15 22:25	1
Toluene-d8 (Surr)	113		75 - 122	09/03/15 17:25	09/04/15 22:25	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Anthracene</b>	<b>0.0081</b>	<b>J</b>	0.038	0.0063	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Benzo[a]anthracene</b>	<b>0.064</b>		0.038	0.0051	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-10-B01 (0-1)**

**Lab Sample ID: 500-100741-20**

**Date Collected: 09/02/15 14:15**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.082</b>		0.038	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Benzo[b]fluoranthene</b>	<b>0.14</b>		0.038	0.0081	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Benzo[g,h,i]perylene</b>	<b>0.031</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Benzo[k]fluoranthene</b>	<b>0.069</b>		0.038	0.011	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Chrysene</b>	<b>0.087</b>		0.038	0.010	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Fluoranthene</b>	<b>0.15</b>		0.038	0.0070	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.033</b>	<b>J</b>	0.038	0.0098	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-10-B01 (0-1)**

**Lab Sample ID: 500-100741-20**

Date Collected: 09/02/15 14:15

Matrix: Solid

Date Received: 09/03/15 09:02

Percent Solids: 84.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Phenanthrene</b>	<b>0.048</b>		0.038	0.0053	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
<b>Pyrene</b>	<b>0.16</b>		0.038	0.0075	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/04/15 07:30	09/10/15 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		25 - 119				09/04/15 07:30	09/10/15 17:24	1
2-Fluorophenol	104		25 - 110				09/04/15 07:30	09/10/15 17:24	1
Nitrobenzene-d5	92		25 - 115				09/04/15 07:30	09/10/15 17:24	1
Phenol-d5	109		31 - 110				09/04/15 07:30	09/10/15 17:24	1
Terphenyl-d14	145	X	36 - 134				09/04/15 07:30	09/10/15 17:24	1
2,4,6-Tribromophenol	102		35 - 137				09/04/15 07:30	09/10/15 17:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Arsenic</b>	<b>8.1</b>		0.56	0.26	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Barium</b>	<b>100</b>		0.56	0.10	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Beryllium</b>	<b>0.73</b>		0.22	0.048	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Cadmium</b>	<b>0.37</b>		0.11	0.032	mg/Kg	☼	09/04/15 11:00	09/05/15 20:57	1
<b>Chromium</b>	<b>19</b>		0.56	0.096	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Cobalt</b>	<b>16</b>		0.28	0.063	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Copper</b>	<b>21</b>		0.56	0.12	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Lead</b>	<b>25</b>		0.28	0.14	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Magnesium</b>	<b>3800</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Calcium</b>	<b>4100</b>	<b>B</b>	11	3.6	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Manganese</b>	<b>760</b>		0.56	0.11	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Nickel</b>	<b>24</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Selenium</b>	<b>0.83</b>		0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Thallium</b>	<b>0.96</b>		0.56	0.28	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Vanadium</b>	<b>28</b>		0.28	0.082	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Zinc</b>	<b>51</b>		1.1	0.35	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Potassium</b>	<b>1800</b>		28	4.6	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1
<b>Sodium</b>	<b>1400</b>		56	7.4	mg/Kg	☼	09/04/15 11:00	09/05/15 05:56	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/04/15 12:00	09/05/15 00:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/15 12:00	09/05/15 00:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/15 12:00	09/05/15 00:13	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-10-B01 (0-1)**

**Lab Sample ID: 500-100741-20**

**Date Collected: 09/02/15 14:15**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>120</b>		2.5	0.50	mg/L		09/04/15 12:00	09/06/15 01:39	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
Cobalt	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
Copper	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
Iron	<0.20		0.20	0.20	mg/L		09/04/15 12:00	09/05/15 00:13	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		09/04/15 12:00	09/05/15 00:13	1
<b>Magnesium</b>	<b>54</b>		2.5	0.50	mg/L		09/04/15 12:00	09/05/15 00:13	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
<b>Potassium</b>	<b>3.7</b>		2.5	0.50	mg/L		09/04/15 12:00	09/05/15 00:13	1
<b>Selenium</b>	<b>0.025</b>	J	0.050	0.020	mg/L		09/04/15 12:00	09/05/15 00:13	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
Vanadium	<0.025		0.025	0.010	mg/L		09/04/15 12:00	09/05/15 00:13	1
<b>Zinc</b>	<b>0.075</b>	J B	0.10	0.020	mg/L		09/04/15 12:00	09/06/15 01:39	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.042</b>	J	0.050	0.010	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Barium</b>	<b>0.80</b>		0.50	0.050	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Beryllium</b>	<b>0.0065</b>		0.0040	0.0040	mg/L		09/04/15 11:00	09/06/15 00:17	1
<b>Cadmium</b>	<b>0.0040</b>	J	0.0050	0.0020	mg/L		09/04/15 11:00	09/06/15 00:17	1
<b>Calcium</b>	<b>33</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:17	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Lead</b>	<b>0.062</b>		0.0075	0.0075	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Magnesium</b>	<b>34</b>		2.5	0.50	mg/L		09/04/15 11:00	09/06/15 00:17	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:17	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Potassium</b>	<b>23</b>		2.5	0.50	mg/L		09/04/15 11:00	09/05/15 00:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/04/15 11:00	09/06/15 00:17	1
Silver	<0.025		0.025	0.010	mg/L		09/04/15 11:00	09/05/15 00:10	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/04/15 11:00	09/06/15 00:17	1
<b>Zinc</b>	<b>0.59</b>		0.10	0.020	mg/L		09/04/15 11:00	09/06/15 00:17	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 12:00	09/09/15 20:55	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		09/04/15 12:00	09/09/15 20:55	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/04/15 11:00	09/10/15 21:06	1
<b>Thallium</b>	<b>0.0030</b>		0.0020	0.0020	mg/L		09/04/15 11:00	09/10/15 21:06	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:40	09/09/15 13:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

**Client Sample ID: 2618-10-B01 (0-1)**

**Lab Sample ID: 500-100741-20**

**Date Collected: 09/02/15 14:15**

**Matrix: Solid**

**Date Received: 09/03/15 09:02**

**Percent Solids: 84.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/08/15 17:30	09/09/15 14:09	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0062	mg/Kg	☼	09/03/15 17:30	09/04/15 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/03/15 19:40	09/03/15 21:38	1
pH	8.66		0.200	0.200	SU			09/09/15 15:28	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100741-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Chicago

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60  
Phone: 708.534.5200 Fax: 708.534.5201



500-100741 COC

Report To (optional)

Contact: Matt Weiss  
Company: Terracon  
Address: 135 Ambassador Dr  
Address: Naperville, IL 60540  
Phone: 630-717-9263  
Fax: 630-357-9989  
E-Mail: Matt.Weiss@terracon.com

Bill To (optional)

Bill To: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100741  
Chain of Custody Number: \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_  
Temperature °C of Cooler: 2, 8, 3, 2

Client		Client Project #		Preservative		Parameter		Total 24 Inorganic		TCLP 24 Inorganic		SPLP 24 Inorganic		pH		Preservative Key	
Project Name		Lab Project #		Matrix		VOCs		SVOCs								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab PM		# of Containers		Matrix										Comments	
Sampler		Date		Time													
1	MS/MSD	Sample ID		Date		Time		# of Containers		Matrix							
1		2618-7-057 (0-2)		9/2/15		3:40		6 S		✓		✓		✓		✓	
2		2618-7-058 (0-2)		9/2/15		3:25		6 S		✓		✓		✓		✓	
3		2618-7-059 (0-2)		9/2/15		3:10		6 S		✓		✓		✓		✓	
4		2618-7-060 (0-2)		9/2/15		2:55		6 S		✓		✓		✓		✓	
5		2618-7-061 (0-2)		9/2/15		2:45		6 S		✓		✓		✓		✓	
6		2618-7-062 (0-2)		9/2/15		2:30		6 S		✓		✓		✓		✓	
7		2618-7-063 (0-2)		9/2/15		2:05		6 S		✓		✓		✓		✓	
8		2618-7-064 (0-2)		9/2/15		1:50		6 S		✓		✓		✓		✓	
9		2618-7-065 (0-2)		9/2/15		1:30		6 S		✓		✓		✓		✓	
10		2618-7-065 Dup (0-2)		9/2/15		1:35		6 S		✓		✓		✓		✓	

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days  10 Days 15 Days Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Cheryl Kelly</u>	Company: <u>Terracon</u>	Date: <u>9/3/15</u>	Time: <u>7:49</u>	Received By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/3/15</u>	Time: <u>0749</u>
Relinquished By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/3/15</u>	Time: <u>0902</u>	Received By: <u>Cheryl Kelly</u>	Company: <u>TA-CHI</u>	Date: <u>9/3/15</u>	Time: <u>0902</u>

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: Meet IL TACO, please do not run aluminum for total/TCLP/SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: 135 Ambassador Dr.  
 Address: Naperville, IL 60540  
 Phone: 630-717-9263  
 Fax: 630-357-9489  
 E-Mail: matt.weiss@terracon.com

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100741

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
Project Name		1157108																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #																		
Moffitt Estates, IL																				
Sampler		Lab PM																		
Chad Kelly																				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Vocs	SVOCs	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	PH							Comments	
			Date	Time																
11		2618-7-B66 (0-2)	9/2/15	1:20	6	S	✓	✓	✓	✓	✓	✓								
12		2618-7-B67 (0-2)	9/2/15	1:05	6	S	✓	✓	✓	✓	✓	✓								
13		2618-7-B68 (0-2)	9/2/15	12:05	6	S	✓	✓	✓	✓	✓	✓								
14		2618-7-B69 (0-2)	9/2/15	11:50	6	S	✓	✓	✓	✓	✓	✓								
15		2618-7-B70 (0-2)	9/2/15	11:35	6	S	✓	✓	✓	✓	✓	✓								
16		2618-7-B76 (0-2)	9/2/15	9:55	6	S	✓	✓	✓	✓	✓	✓								
17		2618-7-B77 (0-2)	9/2/15	9:40	6	S	✓	✓	✓	✓	✓	✓								
18		2618-7-B78 (0-2)	9/2/15	9:30	6	S	✓	✓	✓	✓	✓	✓								
19		2618-7-B79 (0-2)	9/2/15	8:40	6	S	✓	✓	✓	✓	✓	✓								

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>9/3/15</u>	Time <u>7:49</u>	Received By <u>P. New</u>	Company <u>TA</u>	Date <u>9/3/15</u>	Time <u>0749</u>	Lab Courier <u>TA</u>
Relinquished By <u>P. New</u>	Company <u>TA</u>	Date <u>9/3/15</u>	Time <u>0902</u>	Received By <u>Shirley</u>	Company <u>TA-CP</u>	Date <u>9/3/15</u>	Time <u>0902</u>	Shipped _____
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered _____

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: Meet IL TACO requirements. Please do not run aluminum for total/TCLP/SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100741-1

**Login Number: 100741**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100873-1

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/18/2015 12:48:55 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Job ID: 500-100873-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100873-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: 2618-7-B121 (0-2) (500-100873-12). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: (500-100873-F-1-C MS) and (500-100873-F-1-D MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The method blank for preparation batch 500-303597 and analytical batch 500-303871 contained Zinc above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The initial calibration blank (ICB) was outside of the method control limits for Iron associated with the samples 2618-7-B122 (0-2) (500-100873-13) and 2618-7-B128 (0-2) (500-100873-20). The continuing calibration blanks (CCV), laboratory control sample (LCS), and all other QC were within the control limits, therefore the data has been reported

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 (0-2)**

**Lab Sample ID: 500-100873-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0083	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.047		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.066		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.086		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.065		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.069		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.085		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.036	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.056		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.10	F1	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.3		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8300		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	710		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	46	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	270	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.099		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.075	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	26		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	4.0		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	8.2		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.4		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.26	J	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018	J F1	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B80 (0-2) (Continued)

## Lab Sample ID: 500-100873-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	9.18		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B80 DUP (0-2)

## Lab Sample ID: 500-100873-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0081	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	640		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	47	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.023	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.13		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.027	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	24		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	69		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.24		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.071		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.48	J	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.032		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.89		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B81 (0-2)

## Lab Sample ID: 500-100873-3

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B81 (0-2) (Continued)**

**Lab Sample ID: 500-100873-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0068	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.015	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.092		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.11		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.18		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.072		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0054	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.094		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.20		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.46	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.6		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.71		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.1		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	170		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	37000		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	84	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.090	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.053		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.0		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0068		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	25		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B81 (0-2) (Continued)

## Lab Sample ID: 500-100873-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.75		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0024		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.023		0.018	0.0064	mg/Kg	1	*	7471B	Total/NA
pH	9.03		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B82 (0-2)

## Lab Sample ID: 500-100873-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.010	J	0.038	0.0083	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.013	J	0.038	0.0072	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.012	J	0.038	0.0077	mg/Kg	1	*	8270D	Total/NA
Antimony	0.39	J	1.2	0.25	mg/Kg	1	*	6010B	Total/NA
Arsenic	12		0.61	0.28	mg/Kg	1	*	6010B	Total/NA
Barium	84		0.61	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.87		0.24	0.052	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.28		0.12	0.035	mg/Kg	1	*	6010B	Total/NA
Chromium	21		0.61	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	9.7		0.30	0.068	mg/Kg	1	*	6010B	Total/NA
Copper	20		0.61	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	27000		12	4.7	mg/Kg	1	*	6010B	Total/NA
Lead	20		0.30	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	3400		6.1	2.5	mg/Kg	1	*	6010B	Total/NA
Calcium	2500		12	3.9	mg/Kg	1	*	6010B	Total/NA
Manganese	670		0.61	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	21		0.61	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.42	J	0.61	0.30	mg/Kg	1	*	6010B	Total/NA
Vanadium	34		0.30	0.088	mg/Kg	1	*	6010B	Total/NA
Zinc	57	B	1.2	0.38	mg/Kg	1	*	6010B	Total/NA
Potassium	1300		30	4.9	mg/Kg	1	*	6010B	Total/NA
Sodium	2500		61	8.0	mg/Kg	1	*	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	150	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	72		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.047	J F1	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.92		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0067		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	21		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.12	F1	0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	24	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B82 (0-2) (Continued)

## Lab Sample ID: 500-100873-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	18	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.58	F1	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0023		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00030		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.045		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.35		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B83 (0-2)

## Lab Sample ID: 500-100873-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.039		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.024	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.039		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.035	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.35		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.71		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	57000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	470		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	86	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.051		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.67		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	28		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B83 (0-2) (Continued)

## Lab Sample ID: 500-100873-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.60		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0029		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.020		0.017	0.0060	mg/Kg	1	✱	7471B	Total/NA
pH	8.92		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B115 (0-2)

## Lab Sample ID: 500-100873-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.58	J	1.2	0.24	mg/Kg	1	✱	6010B	Total/NA
Arsenic	10		0.58	0.27	mg/Kg	1	✱	6010B	Total/NA
Barium	90		0.58	0.11	mg/Kg	1	✱	6010B	Total/NA
Beryllium	0.84		0.23	0.050	mg/Kg	1	✱	6010B	Total/NA
Cadmium	0.41		0.12	0.033	mg/Kg	1	✱	6010B	Total/NA
Chromium	21		0.58	0.099	mg/Kg	1	✱	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	✱	6010B	Total/NA
Copper	30		0.58	0.13	mg/Kg	1	✱	6010B	Total/NA
Iron	24000		12	4.4	mg/Kg	1	✱	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	✱	6010B	Total/NA
Magnesium	17000		5.8	2.3	mg/Kg	1	✱	6010B	Total/NA
Calcium	23000		12	3.7	mg/Kg	1	✱	6010B	Total/NA
Manganese	500		0.58	0.11	mg/Kg	1	✱	6010B	Total/NA
Nickel	33		0.58	0.16	mg/Kg	1	✱	6010B	Total/NA
Vanadium	29		0.29	0.084	mg/Kg	1	✱	6010B	Total/NA
Zinc	61	B	1.2	0.37	mg/Kg	1	✱	6010B	Total/NA
Potassium	2900		29	4.7	mg/Kg	1	✱	6010B	Total/NA
Sodium	2600		58	7.6	mg/Kg	1	✱	6010B	Total/NA
Barium	0.77		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.096	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.50		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	19		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	29		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.031		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B115 (0-2) (Continued)

## Lab Sample ID: 500-100873-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	9.6		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.053		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	2.1		0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.036		0.018	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	9.21		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B116 (0-2)

## Lab Sample ID: 500-100873-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.023	J	0.037	0.0051	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.025	J	0.037	0.0073	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.040		0.037	0.0081	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.037	0.011	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.024	J	0.037	0.010	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.045		0.037	0.0070	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.018	J	0.037	0.0052	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.037		0.037	0.0075	mg/Kg	1	*	8270D	Total/NA
Antimony	0.25	J	1.2	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	6.0		0.58	0.27	mg/Kg	1	*	6010B	Total/NA
Barium	51		0.58	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.65		0.23	0.050	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.39		0.12	0.034	mg/Kg	1	*	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	*	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	*	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	44000		5.8	2.4	mg/Kg	1	*	6010B	Total/NA
Calcium	90000		120	38	mg/Kg	10	*	6010B	Total/NA
Manganese	600		0.58	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1	*	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	*	6010B	Total/NA
Zinc	40	B	1.2	0.37	mg/Kg	1	*	6010B	Total/NA
Potassium	3300		29	4.8	mg/Kg	1	*	6010B	Total/NA
Sodium	1100		58	7.7	mg/Kg	1	*	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	940		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	360		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.073	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.060		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.68		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0071		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	66		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.055		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B116 (0-2) (Continued)

## Lab Sample ID: 500-100873-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	52		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.90		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	36		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.50		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0030		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.015	J	0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	9.31		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B117 (0-2)

## Lab Sample ID: 500-100873-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.7		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	41	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	1300		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.84	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.36		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.038	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.59		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	70		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B117 (0-2) (Continued)

## Lab Sample ID: 500-100873-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.048		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.46		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.47	J	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.68		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B118 (0-2)

## Lab Sample ID: 500-100873-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.2		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	91000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	550		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	41	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	730		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	57		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.083	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.036	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.50		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0053		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	65		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.059		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	50		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.51		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B118 (0-2) (Continued)

## Lab Sample ID: 500-100873-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.37	J	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.011	J	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.34		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B119 (0-2)

## Lab Sample ID: 500-100873-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12	F1 F2	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	84000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	51	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.059		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	240		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.099	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.076		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.69		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	140		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.077		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	100		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.29		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B119 (0-2) (Continued)

## Lab Sample ID: 500-100873-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	57		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.52		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0040		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00021		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.0072	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.64		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B120 (0-2)

## Lab Sample ID: 500-100873-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021		0.020	0.0038	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0081	J	0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.017	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.093		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.097		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.039	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.066		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0064	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.042		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.10		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.22		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.52	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.47		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	65		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	70	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340	B	2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B120 (0-2) (Continued)

## Lab Sample ID: 500-100873-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	97		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.094	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.042	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.63		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0063		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	31		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.32		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.35	J	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0029		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.023		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	9.06		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B121 (0-2)

## Lab Sample ID: 500-100873-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.067		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.071		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.040		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.083		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.072		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	47		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000		110	37	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B121 (0-2) (Continued)**

**Lab Sample ID: 500-100873-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	360		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	87	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450	B	2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.085	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.085		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.94		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	78		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	260		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.24		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	76		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.5		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	47		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.67		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0044		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.014	J	0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.32		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B122 (0-2)**

**Lab Sample ID: 500-100873-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0071	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.039		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.042		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.074		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.051		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.082		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.047		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.085		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B122 (0-2) (Continued)**

**Lab Sample ID: 500-100873-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cadmium	0.26		0.11	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	18		0.56	0.097	mg/Kg	1		☼	6010B	Total/NA
Cobalt	14		0.28	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	19000		11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	41		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	27000		5.6	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	55000		110	36	mg/Kg	10		☼	6010B	Total/NA
Manganese	530		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	34		0.56	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.67		0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.31	J	0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	23		0.28	0.082	mg/Kg	1		☼	6010B	Total/NA
Zinc	75	B	1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	2900		56	7.4	mg/Kg	1		☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	780		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.081		0.025	0.010	mg/L	1			6010B	TCLP
Iron	1.6	^	0.20	0.20	mg/L	1			6010B	TCLP
Lead	0.060		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.063		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.47		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.068		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.87		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0075		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	43		6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.075		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.26		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	46		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	2.8		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	39		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.69		0.50	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0034		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.00038		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.013	J	0.019	0.0066	mg/Kg	1		☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B123 (0-2)**

**Lab Sample ID: 500-100873-14**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B123 (0-2) (Continued)**

**Lab Sample ID: 500-100873-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.042		0.020	0.0038	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.011		0.0049	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.021	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0084	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.052		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.25		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.25		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.41		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.087	J	0.18	0.067	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.32		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.43		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.021	J	0.036	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.017	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.29		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.57		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.34		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.67		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	550		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	95000		56	23	mg/Kg	10	☼	6010B	Total/NA
Calcium	140000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	110	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340	B	2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	93		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.21		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.048	J	0.050	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B123 (0-2) (Continued)

## Lab Sample ID: 500-100873-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.56		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0058		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	29		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.055		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.75		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.58		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.021		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.74		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B124 (0-2)

## Lab Sample ID: 500-100873-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.016	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.092		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.093		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.039	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.059		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.037	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.087		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.21		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.45	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.45		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	90		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	7000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.48	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	130	B	1.2	0.39	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B124 (0-2) (Continued)

## Lab Sample ID: 500-100873-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2400		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	130	B	2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.21		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.035	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.59		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0050		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	17		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.27		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.66		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.034		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	7.61		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B125 (0-2)

## Lab Sample ID: 500-100873-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.026	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.030	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.057		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.044		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.024	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.057		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.57	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 (0-2) (Continued)**

**Lab Sample ID: 500-100873-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	22		0.59	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	87		0.29	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	32000		5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	75000		120	38	mg/Kg	10		☼	6010B	Total/NA
Manganese	460		0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	34		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.66		0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	21		0.29	0.086	mg/Kg	1		☼	6010B	Total/NA
Zinc	62	B	1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	2700		29	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	2700		59	7.7	mg/Kg	1		☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	930		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.043		0.025	0.010	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	5.3		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.31		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.075		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.75		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0092		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	44		6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.070		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.28		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	54		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	45		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.59		0.50	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0045		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.019		0.018	0.0063	mg/Kg	1		☼	7471B	Total/NA
pH	8.77		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B125 DUP (0-2)**

**Lab Sample ID: 500-100873-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoranthene	0.0083	J	0.037	0.0069	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.27	J	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.9		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	55		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.63		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.27		0.11	0.033	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 DUP (0-2) (Continued)**

**Lab Sample ID: 500-100873-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	17		0.57	0.097	mg/Kg	1		☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	22		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	31000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	66000		110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	400		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	31		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.44	J	0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	21		0.28	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	58	B	1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	2800		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1000		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	380		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.023	J	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.12		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.095		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.91		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0099		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	48		6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.25		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.073		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.26		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	270		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	58		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	49		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.75		0.50	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0052		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.014	J	0.018	0.0061	mg/Kg	1		☼	7471B	Total/NA
pH	8.64		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B126 (0-2)**

**Lab Sample ID: 500-100873-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthylene	0.015	J	0.037	0.0049	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]anthracene	0.034	J	0.037	0.0050	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.059		0.037	0.0072	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.086		0.037	0.0080	mg/Kg	1		☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B126 (0-2) (Continued)**

**Lab Sample ID: 500-100873-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.039		0.037	0.012	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J	0.037	0.011	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.043		0.037	0.010	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.063		0.037	0.0069	mg/Kg	1		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.043		0.037	0.0096	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.028	J	0.037	0.0052	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.059		0.037	0.0074	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.59	J	1.2	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.6		0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	33		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.68		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.19		0.12	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	18		0.58	0.099	mg/Kg	1		☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	33000		5.8	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	80000		120	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	390		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	32		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.28	J	0.58	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	22		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA
Zinc	52	B	1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	2600		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	3200		58	7.6	mg/Kg	1		☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1100		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.052		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	6.2		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.42		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.053		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.51		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0072		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	49		6.0	0.50	mg/L	1			6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.054		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	170		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.090		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	49		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	37		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.52		0.50	0.020	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B126 (0-2) (Continued)

## Lab Sample ID: 500-100873-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.0035		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.032		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B127 (0-2)

## Lab Sample ID: 500-100873-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	35000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	3000		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	300		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.075		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.81		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0087		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	62		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	200		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B127 (0-2) (Continued)

## Lab Sample ID: 500-100873-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	59		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.56		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0038		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.40		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B128 (0-2)

## Lab Sample ID: 500-100873-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.030	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.019	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.58	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	490		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	70	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.014	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0045	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	810		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.060		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.1	^	0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.042		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	370		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B128 (0-2) (Continued)**

**Lab Sample ID: 500-100873-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.71	F1	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.089		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.53		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	32		6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.24		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.58		0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0052		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.030		0.017	0.0061	mg/Kg	1	*	7471B	Total/NA
pH	8.11		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B129 (0-2)**

**Lab Sample ID: 500-100873-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0052	J	0.037	0.0050	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.0092	J	0.037	0.0069	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.0053	J	0.037	0.0052	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.0098	J	0.037	0.0073	mg/Kg	1	*	8270D	Total/NA
Antimony	0.49	J	1.1	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	9.5		0.57	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	54		0.57	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.58		0.23	0.049	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.33		0.11	0.033	mg/Kg	1	*	6010B	Total/NA
Chromium	16		0.57	0.097	mg/Kg	1	*	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	*	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	*	6010B	Total/NA
Lead	60		0.28	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	25000		5.7	2.3	mg/Kg	1	*	6010B	Total/NA
Calcium	57000		110	36	mg/Kg	10	*	6010B	Total/NA
Manganese	420		0.57	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	27		0.57	0.15	mg/Kg	1	*	6010B	Total/NA
Thallium	0.44	J	0.57	0.28	mg/Kg	1	*	6010B	Total/NA
Vanadium	21		0.28	0.083	mg/Kg	1	*	6010B	Total/NA
Zinc	92	B	1.1	0.36	mg/Kg	1	*	6010B	Total/NA
Potassium	1900		28	4.6	mg/Kg	1	*	6010B	Total/NA
Sodium	1400		57	7.5	mg/Kg	1	*	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	83		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.5		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Client Sample ID: 2618-7-B129 (0-2) (Continued)

## Lab Sample ID: 500-100873-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.062	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.82	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0065		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	44	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	220		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	36	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.7		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.82	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0047		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.036		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B130 (0-2)

## Lab Sample ID: 500-100873-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0074	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	780		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	75	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	74		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B130 (0-2) (Continued)**

**Lab Sample ID: 500-100873-22**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	7.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.087	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.0	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0076		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	42	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.097		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	37	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.7		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	21	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.99	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0046		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.015	J	0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B131 (0-2)**

**Lab Sample ID: 500-100873-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0097	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.043		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.045		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.070		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.048		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.071		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.065		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.39	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	75		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B131 (0-2) (Continued)**

**Lab Sample ID: 500-100873-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.44	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	80	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	97		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.078		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.10		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.92	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0072		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	45	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	35	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	17	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.79	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0037		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.031		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B132 (0-2)**

**Lab Sample ID: 500-100873-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.025	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0079	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.23	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.2	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B132 (0-2) (Continued)**

**Lab Sample ID: 500-100873-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	45		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	78	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.25		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.11		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.82	B	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0068		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	44	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.074		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.32		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	32	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.89	B	0.50	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0040		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.040		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.69		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B159 (0-6)**

**Lab Sample ID: 500-100873-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000		110	37	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (0-6) (Continued)**

**Lab Sample ID: 500-100873-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	310		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.35	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	45	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.17	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	20	B	6.0	0.50	mg/L	1		6010B	SPLP East
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	2.8		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	7.7	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.5	B	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.33	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B159 (6-13)**

**Lab Sample ID: 500-100873-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.24	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.2		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	96000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		28	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	320		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	64		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (6-13) (Continued)**

**Lab Sample ID: 500-100873-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.027	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.35	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	68	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	71		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.038		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.091		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.28	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.0065	mg/Kg	1	✱	7471B	Total/NA
pH	8.42		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100873-1	2618-7-B80 (0-2)	Solid	09/04/15 09:15	09/04/15 21:00
500-100873-2	2618-7-B80 DUP (0-2)	Solid	09/04/15 09:20	09/04/15 21:00
500-100873-3	2618-7-B81 (0-2)	Solid	09/04/15 09:05	09/04/15 21:00
500-100873-4	2618-7-B82 (0-2)	Solid	09/04/15 08:55	09/04/15 21:00
500-100873-5	2618-7-B83 (0-2)	Solid	09/04/15 08:45	09/04/15 21:00
500-100873-6	2618-7-B115 (0-2)	Solid	09/04/15 13:50	09/04/15 21:00
500-100873-7	2618-7-B116 (0-2)	Solid	09/04/15 13:40	09/04/15 21:00
500-100873-8	2618-7-B117 (0-2)	Solid	09/04/15 13:30	09/04/15 21:00
500-100873-9	2618-7-B118 (0-2)	Solid	09/04/15 13:15	09/04/15 21:00
500-100873-10	2618-7-B119 (0-2)	Solid	09/04/15 13:05	09/04/15 21:00
500-100873-11	2618-7-B120 (0-2)	Solid	09/04/15 12:55	09/04/15 21:00
500-100873-12	2618-7-B121 (0-2)	Solid	09/04/15 12:45	09/04/15 21:00
500-100873-13	2618-7-B122 (0-2)	Solid	09/04/15 12:05	09/04/15 21:00
500-100873-14	2618-7-B123 (0-2)	Solid	09/04/15 11:55	09/04/15 21:00
500-100873-15	2618-7-B124 (0-2)	Solid	09/04/15 11:40	09/04/15 21:00
500-100873-16	2618-7-B125 (0-2)	Solid	09/04/15 11:25	09/04/15 21:00
500-100873-17	2618-7-B125 DUP (0-2)	Solid	09/04/15 11:30	09/04/15 21:00
500-100873-18	2618-7-B126 (0-2)	Solid	09/04/15 11:15	09/04/15 21:00
500-100873-19	2618-7-B127 (0-2)	Solid	09/04/15 11:05	09/04/15 21:00
500-100873-20	2618-7-B128 (0-2)	Solid	09/04/15 10:55	09/04/15 21:00
500-100873-21	2618-7-B129 (0-2)	Solid	09/04/15 10:45	09/04/15 21:00
500-100873-22	2618-7-B130 (0-2)	Solid	09/04/15 10:30	09/04/15 21:00
500-100873-23	2618-7-B131 (0-2)	Solid	09/04/15 10:20	09/04/15 21:00
500-100873-24	2618-7-B132 (0-2)	Solid	09/04/15 10:10	09/04/15 21:00
500-100873-25	2618-7-B159 (0-6)	Solid	09/04/15 14:05	09/04/15 21:00
500-100873-26	2618-7-B159 (6-13)	Solid	09/04/15 14:10	09/04/15 21:00

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 (0-2)**

**Lab Sample ID: 500-100873-1**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/10/15 18:04	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/10/15 18:04	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/10/15 18:04	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 22:30	09/10/15 18:04	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Anthracene</b>	<b>0.0083</b>	<b>J</b>	0.038	0.0064	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Benzo[a]anthracene</b>	<b>0.047</b>		0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 (0-2)**

**Lab Sample ID: 500-100873-1**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.066</b>		0.038	0.0074	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Benzo[b]fluoranthene</b>	<b>0.086</b>		0.038	0.0082	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Benzo[g,h,i]perylene</b>	<b>0.065</b>		0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Benzo[k]fluoranthene</b>	<b>0.033</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.070	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.072	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Chrysene</b>	<b>0.069</b>		0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Dibenz(a,h)anthracene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
4,6-Dinitro-2-methylphenol	<0.77	F1	0.77	0.31	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Fluoranthene</b>	<b>0.085</b>		0.038	0.0071	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Hexachlorocyclopentadiene	<0.77	F1	0.77	0.22	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.036</b>	<b>J</b>	0.038	0.0099	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 (0-2)**

**Lab Sample ID: 500-100873-1**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Pentachlorophenol	<0.77	F1	0.77	0.61	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Phenanthrene</b>	<b>0.056</b>		0.038	0.0053	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
<b>Pyrene</b>	<b>0.10</b>	<b>F1</b>	0.038	0.0076	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/10/15 07:35	09/16/15 00:21	1
2-Fluorophenol	88		25 - 110	09/10/15 07:35	09/16/15 00:21	1
Nitrobenzene-d5	90		25 - 115	09/10/15 07:35	09/16/15 00:21	1
Phenol-d5	86		31 - 110	09/10/15 07:35	09/16/15 00:21	1
Terphenyl-d14	101		36 - 134	09/10/15 07:35	09/16/15 00:21	1
2,4,6-Tribromophenol	58		35 - 137	09/10/15 07:35	09/16/15 00:21	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Arsenic</b>	<b>7.8</b>		0.58	0.27	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Barium</b>	<b>77</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Beryllium</b>	<b>0.62</b>		0.23	0.050	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Cadmium</b>	<b>0.35</b>		0.12	0.033	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Chromium</b>	<b>15</b>		0.58	0.099	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Cobalt</b>	<b>7.3</b>		0.29	0.065	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Copper</b>	<b>17</b>		0.58	0.13	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Lead</b>	<b>16</b>		0.29	0.14	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Magnesium</b>	<b>8300</b>		5.8	2.3	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Calcium</b>	<b>13000</b>		12	3.7	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Manganese</b>	<b>710</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Nickel</b>	<b>15</b>		0.58	0.16	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/09/15 16:40	09/11/15 12:16	1
<b>Vanadium</b>	<b>25</b>		0.29	0.084	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Zinc</b>	<b>46</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Potassium</b>	<b>1300</b>		29	4.7	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1
<b>Sodium</b>	<b>1400</b>		58	7.6	mg/Kg	☼	09/09/15 16:40	09/10/15 20:49	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 21:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 21:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 (0-2)**

**Lab Sample ID: 500-100873-1**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>270</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 21:59	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 21:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 21:59	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 21:59	1
<b>Manganese</b>	<b>0.099</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
<b>Potassium</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 21:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 21:59	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 21:59	1
<b>Zinc</b>	<b>0.075</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 10:00	09/14/15 21:59	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:30	09/15/15 15:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 15:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Calcium</b>	<b>26</b>		6.0	0.50	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Copper</b>	<b>0.040</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Iron</b>	<b>4.0</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Magnesium</b>	<b>8.2</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Potassium</b>	<b>3.4</b>		2.5	0.50	mg/L		09/14/15 19:30	09/15/15 15:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 15:40	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Vanadium</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:40	1
<b>Zinc</b>	<b>0.26</b>	<b>J</b>	0.50	0.020	mg/L		09/14/15 19:30	09/15/15 15:40	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 10:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 10:54	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 14:59	1
<b>Thallium</b>	<b>0.0021</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 14:59	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 (0-2)**

**Lab Sample ID: 500-100873-1**

**Date Collected: 09/04/15 09:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J F1	0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 11:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	09/10/15 16:15	09/10/15 18:20	1
pH	9.18		0.200	0.200	SU			09/11/15 09:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 DUP (0-2)**

**Lab Sample ID: 500-100873-2**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/10/15 18:29	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/10/15 18:29	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	09/04/15 22:30	09/10/15 18:29	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 22:30	09/10/15 18:29	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 DUP (0-2)**

**Lab Sample ID: 500-100873-2**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
<b>Benzo[b]fluoranthene</b>	<b>0.0081</b>	<b>J</b>	0.037	0.0081	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 DUP (0-2)**

**Lab Sample ID: 500-100873-2**

Date Collected: 09/04/15 09:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	09/10/15 07:35	09/14/15 14:22	1
2-Fluorophenol	80		25 - 110	09/10/15 07:35	09/14/15 14:22	1
Nitrobenzene-d5	88		25 - 115	09/10/15 07:35	09/14/15 14:22	1
Phenol-d5	85		31 - 110	09/10/15 07:35	09/14/15 14:22	1
Terphenyl-d14	82		36 - 134	09/10/15 07:35	09/14/15 14:22	1
2,4,6-Tribromophenol	74		35 - 137	09/10/15 07:35	09/14/15 14:22	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.51</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Arsenic</b>	<b>7.9</b>		0.57	0.26	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Barium</b>	<b>72</b>		0.57	0.10	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.050	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Cadmium</b>	<b>0.36</b>		0.11	0.033	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Chromium</b>	<b>15</b>		0.57	0.098	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Cobalt</b>	<b>6.8</b>		0.29	0.065	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Copper</b>	<b>17</b>		0.57	0.12	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Magnesium</b>	<b>11000</b>		5.7	2.3	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Calcium</b>	<b>17000</b>		11	3.7	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Manganese</b>	<b>640</b>		0.57	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Nickel</b>	<b>15</b>		0.57	0.15	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 16:40	09/11/15 12:21	1
<b>Vanadium</b>	<b>26</b>		0.29	0.083	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Zinc</b>	<b>47</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Potassium</b>	<b>1500</b>		29	4.7	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1
<b>Sodium</b>	<b>1100</b>		57	7.5	mg/Kg	☼	09/09/15 16:40	09/10/15 20:56	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 DUP (0-2)**

**Lab Sample ID: 500-100873-2**

**Date Collected: 09/04/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:05	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:05	1
<b>Magnesium</b>	<b>150</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:05	1
<b>Manganese</b>	<b>0.031</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
<b>Potassium</b>	<b>2.4</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:05	1
<b>Selenium</b>	<b>0.023</b>	<b>J</b>	0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:05	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:05	1
<b>Zinc</b>	<b>0.13</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:05	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.027</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		09/13/15 18:10	09/14/15 15:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 15:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Calcium</b>	<b>24</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Chromium</b>	<b>0.076</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Iron</b>	<b>69</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Lead</b>	<b>0.24</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Manganese</b>	<b>0.87</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Nickel</b>	<b>0.071</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Potassium</b>	<b>15</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 15:21	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Vanadium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:21	1
<b>Zinc</b>	<b>0.48</b>	<b>J</b>	0.50	0.020	mg/L		09/13/15 18:10	09/14/15 15:21	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 10:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 10:55	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:04	1
<b>Thallium</b>	<b>0.0021</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:04	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:32	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B80 DUP (0-2)**

**Lab Sample ID: 500-100873-2**

Date Collected: 09/04/15 09:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 11:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:21	1
pH	8.89		0.200	0.200	SU			09/11/15 09:39	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B81 (0-2)**

**Lab Sample ID: 500-100873-3**

**Date Collected: 09/04/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/10/15 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 22:30	09/10/15 18:54	1
Dibromofluoromethane	105		75 - 120	09/04/15 22:30	09/10/15 18:54	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	09/04/15 22:30	09/10/15 18:54	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/10/15 18:54	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0068	J	0.038	0.0068	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Anthracene	0.015	J	0.038	0.0063	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Benzo[a]anthracene	0.092		0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B81 (0-2)**

**Lab Sample ID: 500-100873-3**

**Date Collected: 09/04/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.11</b>		0.038	0.0074	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Benzo[b]fluoranthene</b>	<b>0.18</b>		0.038	0.0082	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Benzo[g,h,i]perylene</b>	<b>0.050</b>		0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Benzo[k]fluoranthene</b>	<b>0.072</b>		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Chrysene</b>	<b>0.13</b>		0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Fluoranthene</b>	<b>0.16</b>		0.038	0.0070	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Fluorene</b>	<b>0.0054 J</b>		0.038	0.0053	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.051</b>		0.038	0.0098	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B81 (0-2)**

**Lab Sample ID: 500-100873-3**

**Date Collected: 09/04/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Phenanthrene</b>	<b>0.094</b>		0.038	0.0053	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
<b>Pyrene</b>	<b>0.20</b>		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/10/15 07:35	09/16/15 00:44	1
2-Fluorophenol	86		25 - 110	09/10/15 07:35	09/16/15 00:44	1
Nitrobenzene-d5	86		25 - 115	09/10/15 07:35	09/16/15 00:44	1
Phenol-d5	87		31 - 110	09/10/15 07:35	09/16/15 00:44	1
Terphenyl-d14	99		36 - 134	09/10/15 07:35	09/16/15 00:44	1
2,4,6-Tribromophenol	52		35 - 137	09/10/15 07:35	09/16/15 00:44	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.46</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Arsenic</b>	<b>8.6</b>		0.54	0.25	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Barium</b>	<b>47</b>		0.54	0.099	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Beryllium</b>	<b>0.55</b>		0.22	0.047	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Cadmium</b>	<b>0.71</b>		0.11	0.031	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Chromium</b>	<b>15</b>		0.54	0.093	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Cobalt</b>	<b>7.1</b>		0.27	0.061	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Copper</b>	<b>32</b>		0.54	0.12	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Iron</b>	<b>17000</b>		11	4.2	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Lead</b>	<b>170</b>		0.27	0.14	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Magnesium</b>	<b>24000</b>		5.4	2.2	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Calcium</b>	<b>37000</b>		11	3.5	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Manganese</b>	<b>450</b>		0.54	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Nickel</b>	<b>17</b>		0.54	0.15	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	09/09/15 16:40	09/11/15 12:26	1
<b>Vanadium</b>	<b>20</b>		0.27	0.079	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Zinc</b>	<b>84</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Potassium</b>	<b>1700</b>		27	4.4	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1
<b>Sodium</b>	<b>2000</b>		54	7.2	mg/Kg	☼	09/09/15 16:40	09/10/15 21:03	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B81 (0-2)**

**Lab Sample ID: 500-100873-3**

Date Collected: 09/04/15 09:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:10	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:10	1
<b>Magnesium</b>	<b>150</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:10	1
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:10	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:10	1
<b>Zinc</b>	<b>0.090</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:10	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.053</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Barium</b>	<b>1.0</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Beryllium</b>	<b>0.0068</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 15:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Calcium</b>	<b>25</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Magnesium</b>	<b>24</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Potassium</b>	<b>18</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 15:28	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:28	1
<b>Zinc</b>	<b>0.75</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 15:28	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 10:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 10:56	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:05	1
<b>Thallium</b>	<b>0.0024</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:05	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B81 (0-2)**

**Lab Sample ID: 500-100873-3**

**Date Collected: 09/04/15 09:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.023</b>		0.018	0.0064	mg/Kg	☼	09/11/15 17:00	09/14/15 11:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:21	1
pH	<b>9.03</b>		0.200	0.200	SU			09/11/15 09:45	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B82 (0-2)**

**Lab Sample ID: 500-100873-4**

**Date Collected: 09/04/15 08:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,3-Dichloropropane, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Styrene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Toluene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/10/15 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/10/15 19:19	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/10/15 19:19	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 22:30	09/10/15 19:19	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/10/15 19:19	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B82 (0-2)**

**Lab Sample ID: 500-100873-4**

**Date Collected: 09/04/15 08:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
<b>Benzo[b]fluoranthene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0083	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
<b>Fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B82 (0-2)**

**Lab Sample ID: 500-100873-4**

**Date Collected: 09/04/15 08:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
<b>Pyrene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/10/15 07:35	09/14/15 14:50	1
2-Fluorophenol	79		25 - 110	09/10/15 07:35	09/14/15 14:50	1
Nitrobenzene-d5	92		25 - 115	09/10/15 07:35	09/14/15 14:50	1
Phenol-d5	89		31 - 110	09/10/15 07:35	09/14/15 14:50	1
Terphenyl-d14	93		36 - 134	09/10/15 07:35	09/14/15 14:50	1
2,4,6-Tribromophenol	92		35 - 137	09/10/15 07:35	09/14/15 14:50	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Arsenic</b>	<b>12</b>		0.61	0.28	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Barium</b>	<b>84</b>		0.61	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Beryllium</b>	<b>0.87</b>		0.24	0.052	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Cadmium</b>	<b>0.28</b>		0.12	0.035	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Chromium</b>	<b>21</b>		0.61	0.10	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Cobalt</b>	<b>9.7</b>		0.30	0.068	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Copper</b>	<b>20</b>		0.61	0.13	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Iron</b>	<b>27000</b>		12	4.7	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Lead</b>	<b>20</b>		0.30	0.15	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Magnesium</b>	<b>3400</b>		6.1	2.5	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Calcium</b>	<b>2500</b>		12	3.9	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Manganese</b>	<b>670</b>		0.61	0.12	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Nickel</b>	<b>21</b>		0.61	0.16	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Selenium</b>	<b>0.42</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	09/09/15 16:40	09/11/15 12:31	1
<b>Vanadium</b>	<b>34</b>		0.30	0.088	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Zinc</b>	<b>57</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Potassium</b>	<b>1300</b>		30	4.9	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1
<b>Sodium</b>	<b>2500</b>		61	8.0	mg/Kg	☼	09/09/15 16:40	09/10/15 21:10	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B82 (0-2)**

**Lab Sample ID: 500-100873-4**

**Date Collected: 09/04/15 08:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>150</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:15	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:15	1
<b>Magnesium</b>	<b>72</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:15	1
<b>Manganese</b>	<b>0.26</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
<b>Potassium</b>	<b>1.2</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:15	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:15	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:15	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.047</b>	<b>J F1</b>	0.050	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Barium</b>	<b>0.92</b>		0.50	0.050	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Beryllium</b>	<b>0.0067</b>		0.0040	0.0040	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Calcium</b>	<b>21</b>		6.0	0.50	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Chromium</b>	<b>0.15</b>	<b>F1</b>	0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Cobalt</b>	<b>0.035</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Iron</b>	<b>150</b>		0.20	0.20	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Lead</b>	<b>0.12</b>	<b>F1</b>	0.0075	0.0075	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Magnesium</b>	<b>24</b>	<b>F1</b>	2.5	0.50	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Potassium</b>	<b>18</b>	<b>F1</b>	2.5	0.50	mg/L		09/14/15 19:30	09/15/15 15:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:30	09/15/15 15:45	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/14/15 19:30	09/15/15 15:45	1
<b>Zinc</b>	<b>0.58</b>	<b>F1</b>	0.50	0.020	mg/L		09/14/15 19:30	09/15/15 15:45	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 10:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 10:57	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:30	09/16/15 09:48	1
<b>Thallium</b>	<b>0.0023</b>		0.0020	0.0020	mg/L		09/14/15 19:30	09/16/15 09:48	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00030</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B82 (0-2)**

**Lab Sample ID: 500-100873-4**

**Date Collected: 09/04/15 08:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 11:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/10/15 16:15	09/10/15 18:21	1
pH	8.35		0.200	0.200	SU			09/11/15 09:51	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B83 (0-2)**

**Lab Sample ID: 500-100873-5**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.0

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/11/15 03:06	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/11/15 03:06	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	09/04/15 22:30	09/11/15 03:06	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/11/15 03:06	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B83 (0-2)**

**Lab Sample ID: 500-100873-5**

**Date Collected: 09/04/15 08:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
<b>Benzo[b]fluoranthene</b>	<b>0.039</b>		0.038	0.0082	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
<b>Benzo[k]fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
<b>Chrysene</b>	<b>0.024</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
<b>Fluoranthene</b>	<b>0.039</b>		0.038	0.0071	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B83 (0-2)**

**Lab Sample ID: 500-100873-5**

**Date Collected: 09/04/15 08:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
<b>Pyrene</b>	<b>0.035</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	09/10/15 07:35	09/14/15 15:18	1
2-Fluorophenol	75		25 - 110	09/10/15 07:35	09/14/15 15:18	1
Nitrobenzene-d5	80		25 - 115	09/10/15 07:35	09/14/15 15:18	1
Phenol-d5	78		31 - 110	09/10/15 07:35	09/14/15 15:18	1
Terphenyl-d14	91		36 - 134	09/10/15 07:35	09/14/15 15:18	1
2,4,6-Tribromophenol	68		35 - 137	09/10/15 07:35	09/14/15 15:18	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.51</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Arsenic</b>	<b>5.6</b>		0.58	0.27	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Barium</b>	<b>34</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Beryllium</b>	<b>0.35</b>		0.23	0.051	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Cadmium</b>	<b>0.71</b>		0.12	0.034	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Chromium</b>	<b>13</b>		0.58	0.10	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Cobalt</b>	<b>4.8</b>		0.29	0.066	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Copper</b>	<b>27</b>		0.58	0.13	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Iron</b>	<b>12000</b>		12	4.5	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Lead</b>	<b>130</b>		0.29	0.15	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Magnesium</b>	<b>57000</b>		5.8	2.4	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Calcium</b>	<b>110000</b>		120	38	mg/Kg	☼	09/09/15 16:40	09/11/15 12:41	10
<b>Manganese</b>	<b>470</b>		0.58	0.12	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Nickel</b>	<b>11</b>		0.58	0.16	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/09/15 16:40	09/11/15 12:36	1
<b>Vanadium</b>	<b>15</b>		0.29	0.085	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Zinc</b>	<b>86</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Potassium</b>	<b>1200</b>		29	4.8	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1
<b>Sodium</b>	<b>1100</b>		58	7.7	mg/Kg	☼	09/09/15 16:40	09/10/15 21:16	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B83 (0-2)**

**Lab Sample ID: 500-100873-5**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.0

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:20	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:20	1
<b>Manganese</b>	<b>0.77</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:20	1
<b>Selenium</b>	<b>0.021</b>	<b>J</b>	0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:20	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:20	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:20	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.051</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Barium</b>	<b>0.67</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 15:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Calcium</b>	<b>28</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Copper</b>	<b>0.15</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Manganese</b>	<b>0.84</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Potassium</b>	<b>18</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 15:34	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:34	1
<b>Zinc</b>	<b>0.60</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 15:34	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 10:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 10:58	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:06	1
<b>Thallium</b>	<b>0.0029</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:06	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B83 (0-2)**

**Lab Sample ID: 500-100873-5**

Date Collected: 09/04/15 08:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 11:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/10/15 16:15	09/10/15 18:22	1
pH	8.92		0.200	0.200	SU			09/11/15 09:57	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B115 (0-2)**

**Lab Sample ID: 500-100873-6**

**Date Collected: 09/04/15 13:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 22:30	09/11/15 03:32	1
Dibromofluoromethane	105		75 - 120	09/04/15 22:30	09/11/15 03:32	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	09/04/15 22:30	09/11/15 03:32	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 22:30	09/11/15 03:32	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B115 (0-2)**

**Lab Sample ID: 500-100873-6**

**Date Collected: 09/04/15 13:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B115 (0-2)**

**Lab Sample ID: 500-100873-6**

**Date Collected: 09/04/15 13:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	09/10/15 07:35	09/14/15 15:45	1
2-Fluorophenol	73		25 - 110	09/10/15 07:35	09/14/15 15:45	1
Nitrobenzene-d5	88		25 - 115	09/10/15 07:35	09/14/15 15:45	1
Phenol-d5	84		31 - 110	09/10/15 07:35	09/14/15 15:45	1
Terphenyl-d14	87		36 - 134	09/10/15 07:35	09/14/15 15:45	1
2,4,6-Tribromophenol	83		35 - 137	09/10/15 07:35	09/14/15 15:45	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.58</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Arsenic</b>	<b>10</b>		0.58	0.27	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Barium</b>	<b>90</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Beryllium</b>	<b>0.84</b>		0.23	0.050	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Cadmium</b>	<b>0.41</b>		0.12	0.033	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Chromium</b>	<b>21</b>		0.58	0.099	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Cobalt</b>	<b>14</b>		0.29	0.065	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Copper</b>	<b>30</b>		0.58	0.13	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Iron</b>	<b>24000</b>		12	4.4	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Lead</b>	<b>16</b>		0.29	0.14	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Magnesium</b>	<b>17000</b>		5.8	2.3	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Calcium</b>	<b>23000</b>		12	3.7	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Manganese</b>	<b>500</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Nickel</b>	<b>33</b>		0.58	0.16	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/09/15 16:40	09/11/15 12:45	1
<b>Vanadium</b>	<b>29</b>		0.29	0.084	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Zinc</b>	<b>61</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Potassium</b>	<b>2900</b>		29	4.7	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1
<b>Sodium</b>	<b>2600</b>		58	7.6	mg/Kg	☼	09/09/15 16:40	09/10/15 21:23	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B115 (0-2)**

**Lab Sample ID: 500-100873-6**

Date Collected: 09/04/15 13:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 80.7

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>300</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:25	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:25	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:25	1
<b>Manganese</b>	<b>0.33</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
<b>Potassium</b>	<b>3.9</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:25	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:25	1
<b>Zinc</b>	<b>0.096</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:25	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 15:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 15:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Calcium</b>	<b>19</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Chromium</b>	<b>0.036</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Iron</b>	<b>29</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Magnesium</b>	<b>10</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Nickel</b>	<b>0.031</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Potassium</b>	<b>9.6</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 15:41	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Vanadium</b>	<b>0.053</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:41	1
<b>Zinc</b>	<b>2.1</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 15:41	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 10:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 10:58	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:07	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B115 (0-2)**

**Lab Sample ID: 500-100873-6**

Date Collected: 09/04/15 13:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 80.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/10/15 16:15	09/10/15 18:23	1
pH	9.21		0.200	0.200	SU			09/11/15 10:03	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B116 (0-2)**

**Lab Sample ID: 500-100873-7**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/11/15 03:57	1
Dibromofluoromethane	99		75 - 120	09/04/15 22:30	09/11/15 03:57	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/11/15 03:57	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/11/15 03:57	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
<b>Benzo[a]anthracene</b>	<b>0.023</b>	<b>J</b>	0.037	0.0051	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B116 (0-2)**

**Lab Sample ID: 500-100873-7**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.025</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
<b>Benzo[b]fluoranthene</b>	<b>0.040</b>		0.037	0.0081	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
<b>Benzo[k]fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
<b>Chrysene</b>	<b>0.024</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
<b>Fluoranthene</b>	<b>0.045</b>		0.037	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B116 (0-2)**

**Lab Sample ID: 500-100873-7**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
<b>Pyrene</b>	<b>0.037</b>		0.037	0.0075	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/10/15 07:35	09/14/15 16:13	1
2-Fluorophenol	81		25 - 110	09/10/15 07:35	09/14/15 16:13	1
Nitrobenzene-d5	94		25 - 115	09/10/15 07:35	09/14/15 16:13	1
Phenol-d5	80		31 - 110	09/10/15 07:35	09/14/15 16:13	1
Terphenyl-d14	99		36 - 134	09/10/15 07:35	09/14/15 16:13	1
2,4,6-Tribromophenol	103		35 - 137	09/10/15 07:35	09/14/15 16:13	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.25</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Arsenic</b>	<b>6.0</b>		0.58	0.27	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Barium</b>	<b>51</b>		0.58	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.050	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Cadmium</b>	<b>0.39</b>		0.12	0.034	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Chromium</b>	<b>18</b>		0.58	0.10	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Cobalt</b>	<b>11</b>		0.29	0.066	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Copper</b>	<b>20</b>		0.58	0.13	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Lead</b>	<b>15</b>		0.29	0.15	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Magnesium</b>	<b>44000</b>		5.8	2.4	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Calcium</b>	<b>90000</b>		120	38	mg/Kg	☼	09/09/15 16:40	09/11/15 13:02	10
<b>Manganese</b>	<b>600</b>		0.58	0.12	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Nickel</b>	<b>25</b>		0.58	0.16	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/09/15 16:40	09/11/15 12:57	1
<b>Vanadium</b>	<b>21</b>		0.29	0.085	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Zinc</b>	<b>40</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Potassium</b>	<b>3300</b>		29	4.8	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1
<b>Sodium</b>	<b>1100</b>		58	7.7	mg/Kg	☼	09/09/15 16:40	09/10/15 21:30	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:30	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B116 (0-2)**

**Lab Sample ID: 500-100873-7**

Date Collected: 09/04/15 13:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.6

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>940</b>		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:21	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Cobalt</b>	<b>0.049</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Magnesium</b>	<b>360</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Manganese</b>	<b>5.9</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Nickel</b>	<b>0.043</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Potassium</b>	<b>1.8 J</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:30	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:30	1
<b>Zinc</b>	<b>0.073 J</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:30	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.060</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Barium</b>	<b>0.68</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Beryllium</b>	<b>0.0071</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 15:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Calcium</b>	<b>66</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Cobalt</b>	<b>0.055</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Magnesium</b>	<b>52</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Manganese</b>	<b>0.90</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Potassium</b>	<b>36</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 15:48	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:48	1
<b>Zinc</b>	<b>0.50</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 15:48	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 10:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 10:59	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:08	1
<b>Thallium</b>	<b>0.0030</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:08	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B116 (0-2)**

**Lab Sample ID: 500-100873-7**

Date Collected: 09/04/15 13:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.017	0.0059	mg/Kg	☼	09/11/15 17:00	09/14/15 11:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:23	1
pH	9.31		0.200	0.200	SU			09/11/15 10:09	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B117 (0-2)**

**Lab Sample ID: 500-100873-8**

**Date Collected: 09/04/15 13:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.6**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/11/15 04:22	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 04:22	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 22:30	09/11/15 04:22	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/11/15 04:22	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B117 (0-2)**

**Lab Sample ID: 500-100873-8**

**Date Collected: 09/04/15 13:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B117 (0-2)**

**Lab Sample ID: 500-100873-8**

**Date Collected: 09/04/15 13:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/10/15 07:35	09/14/15 16:41	1
2-Fluorophenol	77		25 - 110	09/10/15 07:35	09/14/15 16:41	1
Nitrobenzene-d5	89		25 - 115	09/10/15 07:35	09/14/15 16:41	1
Phenol-d5	83		31 - 110	09/10/15 07:35	09/14/15 16:41	1
Terphenyl-d14	92		36 - 134	09/10/15 07:35	09/14/15 16:41	1
2,4,6-Tribromophenol	81		35 - 137	09/10/15 07:35	09/14/15 16:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.29</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Arsenic</b>	<b>7.0</b>		0.57	0.26	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Barium</b>	<b>39</b>		0.57	0.10	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Beryllium</b>	<b>0.66</b>		0.23	0.049	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Cadmium</b>	<b>0.43</b>		0.11	0.033	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Chromium</b>	<b>18</b>		0.57	0.098	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Cobalt</b>	<b>7.7</b>		0.28	0.064	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Copper</b>	<b>21</b>		0.57	0.12	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Lead</b>	<b>10</b>		0.28	0.14	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Magnesium</b>	<b>40000</b>		5.7	2.3	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Calcium</b>	<b>100000</b>		110	37	mg/Kg	☼	09/09/15 16:40	09/11/15 13:11	10
<b>Manganese</b>	<b>350</b>		0.57	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Nickel</b>	<b>21</b>		0.57	0.15	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 16:40	09/11/15 13:06	1
<b>Vanadium</b>	<b>21</b>		0.28	0.083	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Zinc</b>	<b>41</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Potassium</b>	<b>3300</b>		28	4.6	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1
<b>Sodium</b>	<b>1300</b>		57	7.5	mg/Kg	☼	09/09/15 16:40	09/10/15 21:37	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B117 (0-2)**

**Lab Sample ID: 500-100873-8**

**Date Collected: 09/04/15 13:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1300</b>		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:25	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
<b>Cobalt</b>	<b>0.042</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:35	1
<b>Magnesium</b>	<b>180</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:35	1
<b>Manganese</b>	<b>2.7</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
<b>Potassium</b>	<b>0.84</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:35	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:35	1
<b>Zinc</b>	<b>0.36</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:35	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.038</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 15:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Calcium</b>	<b>70</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Cobalt</b>	<b>0.031</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Iron</b>	<b>100</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Lead</b>	<b>0.048</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Magnesium</b>	<b>45</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Manganese</b>	<b>0.46</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Potassium</b>	<b>34</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 15:54	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Vanadium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 15:54	1
<b>Zinc</b>	<b>0.47</b>	<b>J</b>	0.50	0.020	mg/L		09/13/15 18:10	09/14/15 15:54	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:00	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:09	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B117 (0-2)**

**Lab Sample ID: 500-100873-8**

Date Collected: 09/04/15 13:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 11:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:23	1
pH	8.68		0.200	0.200	SU			09/11/15 10:15	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B118 (0-2)**

**Lab Sample ID: 500-100873-9**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.8**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 22:30	09/11/15 04:47	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/11/15 04:47	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 22:30	09/11/15 04:47	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 22:30	09/11/15 04:47	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B118 (0-2)**

**Lab Sample ID: 500-100873-9**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B118 (0-2)**

**Lab Sample ID: 500-100873-9**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	09/10/15 07:35	09/14/15 17:09	1
2-Fluorophenol	68		25 - 110	09/10/15 07:35	09/14/15 17:09	1
Nitrobenzene-d5	78		25 - 115	09/10/15 07:35	09/14/15 17:09	1
Phenol-d5	73		31 - 110	09/10/15 07:35	09/14/15 17:09	1
Terphenyl-d14	80		36 - 134	09/10/15 07:35	09/14/15 17:09	1
2,4,6-Tribromophenol	72		35 - 137	09/10/15 07:35	09/14/15 17:09	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Arsenic</b>	<b>6.2</b>		0.55	0.25	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Barium</b>	<b>41</b>		0.55	0.10	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Beryllium</b>	<b>0.66</b>		0.22	0.047	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Cadmium</b>	<b>0.39</b>		0.11	0.032	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Chromium</b>	<b>19</b>		0.55	0.094	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Cobalt</b>	<b>14</b>		0.27	0.062	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Copper</b>	<b>21</b>		0.55	0.12	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Iron</b>	<b>19000</b>		11	4.2	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Lead</b>	<b>11</b>		0.27	0.14	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Magnesium</b>	<b>40000</b>		5.5	2.2	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Calcium</b>	<b>91000</b>		110	35	mg/Kg	☼	09/09/15 16:40	09/11/15 13:21	10
<b>Manganese</b>	<b>550</b>		0.55	0.11	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Nickel</b>	<b>30</b>		0.55	0.15	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Thallium</b>	<b>1.1</b>		0.55	0.27	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Vanadium</b>	<b>20</b>		0.27	0.080	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Zinc</b>	<b>41</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Potassium</b>	<b>3400</b>		27	4.5	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1
<b>Sodium</b>	<b>730</b>		55	7.2	mg/Kg	☼	09/09/15 16:40	09/10/15 21:59	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B118 (0-2)**

**Lab Sample ID: 500-100873-9**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:40	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:40	1
<b>Magnesium</b>	<b>57</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:40	1
<b>Manganese</b>	<b>0.50</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
<b>Potassium</b>	<b>1.5</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:40	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:40	1
<b>Zinc</b>	<b>0.083</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:40	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.036</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Beryllium</b>	<b>0.0053</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 16:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Calcium</b>	<b>65</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Cobalt</b>	<b>0.033</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Lead</b>	<b>0.059</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Magnesium</b>	<b>50</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Manganese</b>	<b>0.51</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Potassium</b>	<b>31</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 16:01	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:01	1
<b>Zinc</b>	<b>0.37</b>	<b>J</b>	0.50	0.020	mg/L		09/13/15 18:10	09/14/15 16:01	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:01	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:10	1
<b>Thallium</b>	<b>0.0021</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:10	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B118 (0-2)**

**Lab Sample ID: 500-100873-9**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.8**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:50	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 11:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:24	1
pH	8.34		0.200	0.200	SU			09/11/15 10:21	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B119 (0-2)**

**Lab Sample ID: 500-100873-10**

**Date Collected: 09/04/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/11/15 05:12	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/11/15 05:12	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 22:30	09/11/15 05:12	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 22:30	09/11/15 05:12	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B119 (0-2)**

**Lab Sample ID: 500-100873-10**

**Date Collected: 09/04/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B119 (0-2)**

**Lab Sample ID: 500-100873-10**

Date Collected: 09/04/15 13:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	09/10/15 07:35	09/14/15 17:36	1
2-Fluorophenol	74		25 - 110	09/10/15 07:35	09/14/15 17:36	1
Nitrobenzene-d5	83		25 - 115	09/10/15 07:35	09/14/15 17:36	1
Phenol-d5	85		31 - 110	09/10/15 07:35	09/14/15 17:36	1
Terphenyl-d14	89		36 - 134	09/10/15 07:35	09/14/15 17:36	1
2,4,6-Tribromophenol	46		35 - 137	09/10/15 07:35	09/14/15 17:36	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.23	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Arsenic</b>	<b>4.8</b>		0.55	0.26	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Barium</b>	<b>32</b>		0.55	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Beryllium</b>	<b>0.65</b>		0.22	0.048	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.032	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Chromium</b>	<b>18</b>		0.55	0.095	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Cobalt</b>	<b>9.4</b>		0.28	0.063	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Copper</b>	<b>18</b>		0.55	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Iron</b>	<b>17000</b>		11	4.3	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Lead</b>	<b>12</b>	<b>F1 F2</b>	0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Magnesium</b>	<b>37000</b>		5.5	2.2	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Calcium</b>	<b>84000</b>		110	36	mg/Kg	☼	09/10/15 12:00	09/11/15 14:19	10
<b>Manganese</b>	<b>350</b>		0.55	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Nickel</b>	<b>29</b>		0.55	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
Selenium	<0.55	F1	0.55	0.27	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Vanadium</b>	<b>20</b>		0.28	0.081	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Zinc</b>	<b>51</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Potassium</b>	<b>3100</b>		28	4.5	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1
<b>Sodium</b>	<b>2300</b>		55	7.3	mg/Kg	☼	09/10/15 12:00	09/10/15 22:40	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B119 (0-2)**

**Lab Sample ID: 500-100873-10**

Date Collected: 09/04/15 13:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1200</b>		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:29	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Cobalt</b>	<b>0.059</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Magnesium</b>	<b>240</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Manganese</b>	<b>5.0</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Nickel</b>	<b>0.047</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Potassium</b>	<b>1.4 J</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:52	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:52	1
<b>Zinc</b>	<b>0.099 J</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:52	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.076</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Barium</b>	<b>0.69</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Beryllium</b>	<b>0.011</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 16:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Calcium</b>	<b>140</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Chromium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Cobalt</b>	<b>0.077</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Copper</b>	<b>0.27</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Nickel</b>	<b>0.29</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Potassium</b>	<b>57</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 16:08	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Vanadium</b>	<b>0.24</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:08	1
<b>Zinc</b>	<b>0.52</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 16:08	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:02	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:13	1
<b>Thallium</b>	<b>0.0040</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:13	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00021</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:55	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B119 (0-2)**

**Lab Sample ID: 500-100873-10**

**Date Collected: 09/04/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:52	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0072	J	0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 11:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:01	1
pH	8.64		0.200	0.200	SU			09/11/15 10:27	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B120 (0-2)**

**Lab Sample ID: 500-100873-11**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.021</b>		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/11/15 05:37	1
Dibromofluoromethane	105		75 - 120	09/04/15 22:30	09/11/15 05:37	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/11/15 05:37	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/11/15 05:37	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.0081</b>	<b>J</b>	0.040	0.0072	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Anthracene</b>	<b>0.017</b>	<b>J</b>	0.040	0.0067	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Benzo[a]anthracene</b>	<b>0.093</b>		0.040	0.0054	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B120 (0-2)**

**Lab Sample ID: 500-100873-11**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.097</b>		0.040	0.0078	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Benzo[b]fluoranthene</b>	<b>0.17</b>		0.040	0.0087	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Benzo[g,h,i]perylene</b>	<b>0.039</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Benzo[k]fluoranthene</b>	<b>0.066</b>		0.040	0.012	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Chrysene</b>	<b>0.12</b>		0.040	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Fluoranthene</b>	<b>0.18</b>		0.040	0.0074	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Fluorene</b>	<b>0.0064</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.042</b>		0.040	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B120 (0-2)**

**Lab Sample ID: 500-100873-11**

Date Collected: 09/04/15 12:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 81.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Phenanthrene</b>	<b>0.10</b>		0.040	0.0056	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
<b>Pyrene</b>	<b>0.22</b>		0.040	0.0080	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/10/15 07:35	09/16/15 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/10/15 07:35	09/16/15 01:07	1
2-Fluorophenol	87		25 - 110	09/10/15 07:35	09/16/15 01:07	1
Nitrobenzene-d5	86		25 - 115	09/10/15 07:35	09/16/15 01:07	1
Phenol-d5	88		31 - 110	09/10/15 07:35	09/16/15 01:07	1
Terphenyl-d14	107		36 - 134	09/10/15 07:35	09/16/15 01:07	1
2,4,6-Tribromophenol	45		35 - 137	09/10/15 07:35	09/16/15 01:07	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.52</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Arsenic</b>	<b>7.8</b>		0.58	0.27	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Barium</b>	<b>70</b>		0.58	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Beryllium</b>	<b>0.75</b>		0.23	0.050	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Cadmium</b>	<b>0.47</b>		0.12	0.034	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Chromium</b>	<b>19</b>		0.58	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Copper</b>	<b>23</b>		0.58	0.13	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Iron</b>	<b>20000</b>		12	4.5	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Lead</b>	<b>65</b>		0.29	0.14	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Magnesium</b>	<b>25000</b>		5.8	2.4	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Calcium</b>	<b>51000</b>		120	37	mg/Kg	☼	09/10/15 12:00	09/11/15 14:47	10
<b>Manganese</b>	<b>480</b>		0.58	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Nickel</b>	<b>32</b>		0.58	0.16	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Selenium</b>	<b>0.39</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Thallium</b>	<b>0.40</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Vanadium</b>	<b>25</b>		0.29	0.085	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Zinc</b>	<b>70</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Potassium</b>	<b>2600</b>		29	4.7	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1
<b>Sodium</b>	<b>2000</b>		58	7.7	mg/Kg	☼	09/10/15 12:00	09/10/15 23:11	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		09/14/15 10:00	09/14/15 22:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 22:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B120 (0-2)**

**Lab Sample ID: 500-100873-11**

Date Collected: 09/04/15 12:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 81.7

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>340</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Cobalt</b>	<b>0.029</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Magnesium</b>	<b>97</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Manganese</b>	<b>7.8</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Selenium</b>	<b>0.020</b>	<b>J</b>	0.050	0.020	mg/L		09/14/15 10:00	09/14/15 22:57	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 22:57	1
<b>Zinc</b>	<b>0.094</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 10:00	09/14/15 22:57	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.042</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Barium</b>	<b>0.63</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Beryllium</b>	<b>0.0063</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 16:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Calcium</b>	<b>31</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Cobalt</b>	<b>0.058</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Lead</b>	<b>0.32</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Magnesium</b>	<b>35</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Potassium</b>	<b>31</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 16:15	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:15	1
<b>Zinc</b>	<b>0.35</b>	<b>J</b>	0.50	0.020	mg/L		09/13/15 18:10	09/14/15 16:15	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:06	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:14	1
<b>Thallium</b>	<b>0.0029</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:14	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B120 (0-2)**

**Lab Sample ID: 500-100873-11**

Date Collected: 09/04/15 12:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 81.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:54	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0070	mg/Kg	☼	09/11/15 17:00	09/14/15 11:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/11/15 13:40	09/11/15 16:02	1
pH	9.06		0.200	0.200	SU			09/11/15 10:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B121 (0-2)**

**Lab Sample ID: 500-100873-12**

**Date Collected: 09/04/15 12:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Benzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Bromoform	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,1-Dichloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Tetrachloroethene	<0.0047		0.0047	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 22:30	09/11/15 06:02	1
Dibromofluoromethane	100		75 - 120	09/04/15 22:30	09/11/15 06:02	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 22:30	09/11/15 06:02	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 22:30	09/11/15 06:02	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
<b>Anthracene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0065	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
<b>Benzo[a]anthracene</b>	<b>0.067</b>		0.038	0.0052	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B121 (0-2)**

**Lab Sample ID: 500-100873-12**

**Date Collected: 09/04/15 12:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.071		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Benzo[b]fluoranthene	0.12		0.038	0.0083	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Benzo[g,h,i]perylene	0.030	J	0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Benzo[k]fluoranthene	0.040		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Chrysene	0.083		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Fluoranthene	0.12		0.038	0.0072	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B121 (0-2)**

**Lab Sample ID: 500-100873-12**

Date Collected: 09/04/15 12:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
<b>Phenanthrene</b>	<b>0.072</b>		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
<b>Pyrene</b>	<b>0.14</b>		0.038	0.0077	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/10/15 07:35	09/16/15 01:30	1
2-Fluorophenol	86		25 - 110	09/10/15 07:35	09/16/15 01:30	1
Nitrobenzene-d5	83		25 - 115	09/10/15 07:35	09/16/15 01:30	1
Phenol-d5	86		31 - 110	09/10/15 07:35	09/16/15 01:30	1
Terphenyl-d14	104		36 - 134	09/10/15 07:35	09/16/15 01:30	1
2,4,6-Tribromophenol	31	X	35 - 137	09/10/15 07:35	09/16/15 01:30	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Arsenic</b>	<b>6.4</b>		0.57	0.26	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Barium</b>	<b>52</b>		0.57	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.049	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.033	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Chromium</b>	<b>18</b>		0.57	0.098	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Copper</b>	<b>21</b>		0.57	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Lead</b>	<b>47</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Magnesium</b>	<b>26000</b>		5.7	2.3	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Calcium</b>	<b>60000</b>		110	37	mg/Kg	☼	09/10/15 12:00	09/11/15 14:51	10
<b>Manganese</b>	<b>360</b>		0.57	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Nickel</b>	<b>31</b>		0.57	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Selenium</b>	<b>0.48</b>	J	0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Thallium</b>	<b>0.28</b>	J	0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Vanadium</b>	<b>23</b>		0.28	0.083	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Zinc</b>	<b>87</b>	B	1.1	0.36	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Potassium</b>	<b>2500</b>		28	4.6	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1
<b>Sodium</b>	<b>2700</b>		57	7.5	mg/Kg	☼	09/10/15 12:00	09/10/15 23:16	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
<b>Barium</b>	<b>0.42</b>	J	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B121 (0-2)**

**Lab Sample ID: 500-100873-12**

Date Collected: 09/04/15 12:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.5

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>450</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:02	1
<b>Magnesium</b>	<b>68</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:02	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
<b>Potassium</b>	<b>1.8</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:02	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:02	1
<b>Zinc</b>	<b>0.085</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:02	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.085</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Barium</b>	<b>0.94</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Beryllium</b>	<b>0.011</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 16:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Calcium</b>	<b>78</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Chromium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Cobalt</b>	<b>0.11</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Copper</b>	<b>0.28</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Iron</b>	<b>260</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Lead</b>	<b>0.24</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Magnesium</b>	<b>76</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Nickel</b>	<b>0.32</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Potassium</b>	<b>47</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 16:37	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:37	1
<b>Zinc</b>	<b>0.67</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 16:37	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:07	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:15	1
<b>Thallium</b>	<b>0.0044</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:15	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 13:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B121 (0-2)**

**Lab Sample ID: 500-100873-12**

Date Collected: 09/04/15 12:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 12:56	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 11:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/11/15 13:40	09/11/15 16:02	1
pH	8.32		0.200	0.200	SU			09/11/15 10:39	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B122 (0-2)**

**Lab Sample ID: 500-100873-13**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 22:30	09/11/15 06:27	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/11/15 06:27	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	09/04/15 22:30	09/11/15 06:27	1
Toluene-d8 (Surr)	110		75 - 122	09/04/15 22:30	09/11/15 06:27	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
<b>Anthracene</b>	<b>0.0071</b>	<b>J</b>	0.037	0.0063	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
<b>Benzo[a]anthracene</b>	<b>0.039</b>		0.037	0.0051	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B122 (0-2)**

**Lab Sample ID: 500-100873-13**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.042		0.037	0.0073	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Benzo[b]fluoranthene	0.074		0.037	0.0081	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Benzo[k]fluoranthene	0.030	J	0.037	0.011	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Chrysene	0.051		0.037	0.010	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Fluoranthene	0.082		0.037	0.0070	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B122 (0-2)**

**Lab Sample ID: 500-100873-13**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
<b>Phenanthrene</b>	<b>0.047</b>		0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
<b>Pyrene</b>	<b>0.085</b>		0.037	0.0075	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/15/15 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/10/15 07:35	09/15/15 05:24	1
2-Fluorophenol	96		25 - 110	09/10/15 07:35	09/15/15 05:24	1
Nitrobenzene-d5	89		25 - 115	09/10/15 07:35	09/15/15 05:24	1
Phenol-d5	92		31 - 110	09/10/15 07:35	09/15/15 05:24	1
Terphenyl-d14	107		36 - 134	09/10/15 07:35	09/15/15 05:24	1
2,4,6-Tribromophenol	67		35 - 137	09/10/15 07:35	09/15/15 05:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.41</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Arsenic</b>	<b>8.3</b>		0.56	0.26	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Barium</b>	<b>59</b>		0.56	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Beryllium</b>	<b>0.71</b>		0.22	0.049	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Cadmium</b>	<b>0.26</b>		0.11	0.033	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Chromium</b>	<b>18</b>		0.56	0.097	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Cobalt</b>	<b>14</b>		0.28	0.064	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Copper</b>	<b>22</b>		0.56	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Iron</b>	<b>19000</b>		11	4.3	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Lead</b>	<b>41</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Magnesium</b>	<b>27000</b>		5.6	2.3	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Calcium</b>	<b>55000</b>		110	36	mg/Kg	☼	09/10/15 12:00	09/11/15 14:55	10
<b>Manganese</b>	<b>530</b>		0.56	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Nickel</b>	<b>34</b>		0.56	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Selenium</b>	<b>0.67</b>		0.56	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Thallium</b>	<b>0.31</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Vanadium</b>	<b>23</b>		0.28	0.082	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Zinc</b>	<b>75</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Potassium</b>	<b>2600</b>		28	4.6	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1
<b>Sodium</b>	<b>2900</b>		56	7.4	mg/Kg	☼	09/10/15 12:00	09/10/15 23:21	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Barium</b>	<b>0.62</b>		0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Cadmium</b>	<b>0.0040</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B122 (0-2)**

**Lab Sample ID: 500-100873-13**

Date Collected: 09/04/15 12:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.8

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>780</b>		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:33	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Cobalt</b>	<b>0.081</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Iron</b>	<b>1.6</b> ^		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Lead</b>	<b>0.060</b>		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Magnesium</b>	<b>310</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Manganese</b>	<b>14</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Nickel</b>	<b>0.063</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Potassium</b>	<b>2.1</b> J		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:06	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:06	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:06	1
<b>Zinc</b>	<b>0.47</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:06	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.068</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Barium</b>	<b>0.87</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Beryllium</b>	<b>0.0075</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 16:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Calcium</b>	<b>43</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Cobalt</b>	<b>0.075</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Lead</b>	<b>0.26</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Magnesium</b>	<b>46</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Manganese</b>	<b>2.8</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Potassium</b>	<b>39</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 16:44	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:44	1
<b>Zinc</b>	<b>0.69</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 16:44	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:08	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:16	1
<b>Thallium</b>	<b>0.0034</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:16	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00038</b>		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B122 (0-2)**

**Lab Sample ID: 500-100873-13**

Date Collected: 09/04/15 12:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:04	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 11:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:02	1
pH	8.63		0.200	0.200	SU			09/11/15 10:45	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B123 (0-2)**

**Lab Sample ID: 500-100873-14**

**Date Collected: 09/04/15 11:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.042</b>		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
<b>2-Butanone (MEK)</b>	<b>0.011</b>		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 22:30	09/11/15 06:53	1
Dibromofluoromethane	108		75 - 120	09/04/15 22:30	09/11/15 06:53	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 22:30	09/11/15 06:53	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/11/15 06:53	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.021</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Acenaphthylene</b>	<b>0.0084</b>	<b>J</b>	0.036	0.0048	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Anthracene</b>	<b>0.052</b>		0.036	0.0061	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Benzo[a]anthracene</b>	<b>0.25</b>		0.036	0.0049	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B123 (0-2)**

**Lab Sample ID: 500-100873-14**

**Date Collected: 09/04/15 11:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.25</b>		0.036	0.0071	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Benzo[b]fluoranthene</b>	<b>0.41</b>		0.036	0.0079	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Benzo[g,h,i]perylene</b>	<b>0.12</b>		0.036	0.012	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Benzo[k]fluoranthene</b>	<b>0.17</b>		0.036	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.087</b>	<b>J</b>	0.18	0.067	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Chrysene</b>	<b>0.32</b>		0.036	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Fluoranthene</b>	<b>0.43</b>		0.036	0.0068	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Fluorene</b>	<b>0.021</b>	<b>J</b>	0.036	0.0052	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.11</b>		0.036	0.0095	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>2-Methylnaphthalene</b>	<b>0.017</b>	<b>J</b>	0.036	0.0067	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Naphthalene</b>	<b>0.012</b>	<b>J</b>	0.036	0.0056	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B123 (0-2)**

**Lab Sample ID: 500-100873-14**

**Date Collected: 09/04/15 11:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Phenanthrene</b>	<b>0.29</b>		0.036	0.0051	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
<b>Pyrene</b>	<b>0.57</b>		0.036	0.0073	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/10/15 07:35	09/16/15 01:53	1
2-Fluorophenol	90		25 - 110	09/10/15 07:35	09/16/15 01:53	1
Nitrobenzene-d5	88		25 - 115	09/10/15 07:35	09/16/15 01:53	1
Phenol-d5	90		31 - 110	09/10/15 07:35	09/16/15 01:53	1
Terphenyl-d14	113		36 - 134	09/10/15 07:35	09/16/15 01:53	1
2,4,6-Tribromophenol	65		35 - 137	09/10/15 07:35	09/16/15 01:53	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.55</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Arsenic</b>	<b>5.5</b>		0.56	0.26	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Barium</b>	<b>44</b>		0.56	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Beryllium</b>	<b>0.34</b>		0.22	0.048	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Cadmium</b>	<b>0.67</b>		0.11	0.032	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Chromium</b>	<b>10</b>		0.56	0.096	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Cobalt</b>	<b>6.1</b>		0.28	0.063	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Copper</b>	<b>32</b>		0.56	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Iron</b>	<b>16000</b>		11	4.3	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Lead</b>	<b>550</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Magnesium</b>	<b>95000</b>		56	23	mg/Kg	☼	09/10/15 12:00	09/11/15 14:59	10
<b>Calcium</b>	<b>140000</b>		110	36	mg/Kg	☼	09/10/15 12:00	09/11/15 14:59	10
<b>Manganese</b>	<b>380</b>		0.56	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Nickel</b>	<b>16</b>		0.56	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Selenium</b>	<b>0.42</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Vanadium</b>	<b>11</b>		0.28	0.082	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Zinc</b>	<b>110</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Potassium</b>	<b>1100</b>		28	4.6	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1
<b>Sodium</b>	<b>1500</b>		56	7.4	mg/Kg	☼	09/10/15 12:00	09/10/15 23:26	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Cadmium</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B123 (0-2)**

**Lab Sample ID: 500-100873-14**

Date Collected: 09/04/15 11:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>340</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:11	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Lead</b>	<b>0.043</b>		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Magnesium</b>	<b>93</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Potassium</b>	<b>2.5</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Selenium</b>	<b>0.022</b>	<b>J</b>	0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:11	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:11	1
<b>Zinc</b>	<b>0.21</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:11	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.048</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Beryllium</b>	<b>0.0058</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 16:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Calcium</b>	<b>29</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Cobalt</b>	<b>0.055</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Copper</b>	<b>0.17</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Iron</b>	<b>150</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Lead</b>	<b>0.75</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Nickel</b>	<b>0.16</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Potassium</b>	<b>27</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 16:51	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Vanadium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:51	1
<b>Zinc</b>	<b>0.58</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 16:51	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:08	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:17	1
<b>Thallium</b>	<b>0.0033</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:17	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B123 (0-2)**

**Lab Sample ID: 500-100873-14**

**Date Collected: 09/04/15 11:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:06	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 11:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:03	1
pH	8.74		0.200	0.200	SU			09/11/15 10:51	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B124 (0-2)**

**Lab Sample ID: 500-100873-15**

**Date Collected: 09/04/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Dibromochloromethane	<0.0055		0.0055	0.00064	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,2-Dichloropropane	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Tetrachloroethene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/11/15 07:18	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 07:18	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/11/15 07:18	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 07:18	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
<b>Anthracene</b>	<b>0.016</b>	<b>J</b>	0.040	0.0067	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
<b>Benzo[a]anthracene</b>	<b>0.092</b>		0.040	0.0054	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B124 (0-2)**

**Lab Sample ID: 500-100873-15**

**Date Collected: 09/04/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.093		0.040	0.0077	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Benzo[b]fluoranthene	0.15		0.040	0.0086	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Benzo[g,h,i]perylene	0.039	J	0.040	0.013	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Benzo[k]fluoranthene	0.059		0.040	0.012	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Chrysene	0.12		0.040	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Fluoranthene	0.15		0.040	0.0074	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Indeno[1,2,3-cd]pyrene	0.037	J	0.040	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B124 (0-2)**

**Lab Sample ID: 500-100873-15**

Date Collected: 09/04/15 11:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
<b>Phenanthrene</b>	<b>0.087</b>		0.040	0.0056	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
<b>Pyrene</b>	<b>0.21</b>		0.040	0.0079	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/10/15 07:35	09/16/15 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/10/15 07:35	09/16/15 02:16	1
2-Fluorophenol	87		25 - 110	09/10/15 07:35	09/16/15 02:16	1
Nitrobenzene-d5	83		25 - 115	09/10/15 07:35	09/16/15 02:16	1
Phenol-d5	87		31 - 110	09/10/15 07:35	09/16/15 02:16	1
Terphenyl-d14	112		36 - 134	09/10/15 07:35	09/16/15 02:16	1
2,4,6-Tribromophenol	61		35 - 137	09/10/15 07:35	09/16/15 02:16	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.45</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Arsenic</b>	<b>8.7</b>		0.61	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Barium</b>	<b>69</b>		0.61	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Beryllium</b>	<b>0.72</b>		0.24	0.053	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Cadmium</b>	<b>0.45</b>		0.12	0.035	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Chromium</b>	<b>19</b>		0.61	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Cobalt</b>	<b>14</b>		0.31	0.069	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Copper</b>	<b>23</b>		0.61	0.13	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Iron</b>	<b>20000</b>		12	4.7	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Lead</b>	<b>90</b>		0.31	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Magnesium</b>	<b>6000</b>		6.1	2.5	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Calcium</b>	<b>7000</b>		12	3.9	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Manganese</b>	<b>410</b>		0.61	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Nickel</b>	<b>31</b>		0.61	0.17	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Selenium</b>	<b>0.30</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
Silver	<0.31		0.31	0.071	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Thallium</b>	<b>0.48</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Vanadium</b>	<b>28</b>		0.31	0.089	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Zinc</b>	<b>130</b>	<b>B</b>	1.2	0.39	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Potassium</b>	<b>2400</b>		31	5.0	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1
<b>Sodium</b>	<b>2700</b>		61	8.1	mg/Kg	☼	09/10/15 12:00	09/10/15 23:31	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:16	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B124 (0-2)**

**Lab Sample ID: 500-100873-15**

Date Collected: 09/04/15 11:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.6

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>130</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Magnesium</b>	<b>54</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Manganese</b>	<b>4.4</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Potassium</b>	<b>4.2</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Selenium</b>	<b>0.020</b>	<b>J</b>	0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:16	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:16	1
<b>Zinc</b>	<b>0.21</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:16	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.035</b>	<b>J</b>	0.050	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Beryllium</b>	<b>0.0050</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 16:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Calcium</b>	<b>17</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Iron</b>	<b>100</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Lead</b>	<b>0.27</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Magnesium</b>	<b>21</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Manganese</b>	<b>0.87</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Potassium</b>	<b>27</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 16:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 16:58	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 16:58	1
<b>Zinc</b>	<b>0.66</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 16:58	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:09	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:17	1
<b>Thallium</b>	<b>0.0025</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:17	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B124 (0-2)**

**Lab Sample ID: 500-100873-15**

Date Collected: 09/04/15 11:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:08	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 11:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.21	mg/Kg	☼	09/11/15 13:40	09/11/15 16:03	1
pH	7.61		0.200	0.200	SU			09/11/15 11:03	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 (0-2)**

**Lab Sample ID: 500-100873-16**

**Date Collected: 09/04/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 22:30	09/11/15 07:43	1
Dibromofluoromethane	105		75 - 120	09/04/15 22:30	09/11/15 07:43	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 22:30	09/11/15 07:43	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/11/15 07:43	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 (0-2)**

**Lab Sample ID: 500-100873-16**

**Date Collected: 09/04/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.030</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Benzo[b]fluoranthene</b>	<b>0.057</b>		0.039	0.0084	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Benzo[g,h,i]perylene</b>	<b>0.018</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Benzo[k]fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Chrysene</b>	<b>0.036</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Fluoranthene</b>	<b>0.044</b>		0.039	0.0072	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 (0-2)**

**Lab Sample ID: 500-100873-16**

Date Collected: 09/04/15 11:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Phenanthrene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
<b>Pyrene</b>	<b>0.057</b>		0.039	0.0077	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:35	09/16/15 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/10/15 07:35	09/16/15 02:39	1
2-Fluorophenol	90		25 - 110	09/10/15 07:35	09/16/15 02:39	1
Nitrobenzene-d5	88		25 - 115	09/10/15 07:35	09/16/15 02:39	1
Phenol-d5	92		31 - 110	09/10/15 07:35	09/16/15 02:39	1
Terphenyl-d14	117		36 - 134	09/10/15 07:35	09/16/15 02:39	1
2,4,6-Tribromophenol	55		35 - 137	09/10/15 07:35	09/16/15 02:39	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.57</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Arsenic</b>	<b>6.8</b>		0.59	0.27	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Barium</b>	<b>59</b>		0.59	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.051	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Cadmium</b>	<b>0.42</b>		0.12	0.034	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Chromium</b>	<b>17</b>		0.59	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Copper</b>	<b>22</b>		0.59	0.13	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Lead</b>	<b>87</b>		0.29	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Magnesium</b>	<b>32000</b>		5.9	2.4	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Calcium</b>	<b>75000</b>		120	38	mg/Kg	☼	09/10/15 12:00	09/11/15 15:03	10
<b>Manganese</b>	<b>460</b>		0.59	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Nickel</b>	<b>34</b>		0.59	0.16	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Selenium</b>	<b>0.66</b>		0.59	0.29	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Vanadium</b>	<b>21</b>		0.29	0.086	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Zinc</b>	<b>62</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Potassium</b>	<b>2700</b>		29	4.8	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1
<b>Sodium</b>	<b>2700</b>		59	7.7	mg/Kg	☼	09/10/15 12:00	09/10/15 23:35	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:21	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 (0-2)**

**Lab Sample ID: 500-100873-16**

Date Collected: 09/04/15 11:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	930		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:37	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
Cobalt	0.043		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
Copper	0.011	J	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:21	1
Magnesium	310		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:21	1
Manganese	5.3		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
Nickel	0.035		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
Potassium	3.2		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:21	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:21	1
Zinc	0.31		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:21	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.075		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Barium	0.75		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 17:04	1
Beryllium	0.0092		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 17:04	1
Calcium	44		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 17:04	1
Chromium	0.22		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Cobalt	0.070		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Copper	0.22		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Iron	210		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 17:04	1
Lead	0.28		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 17:04	1
Magnesium	54		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:04	1
Manganese	1.4		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Nickel	0.24		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Potassium	45		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 17:04	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Vanadium	0.26		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:04	1
Zinc	0.59		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 17:04	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:10	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:18	1
Thallium	0.0045		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:18	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 (0-2)**

**Lab Sample ID: 500-100873-16**

Date Collected: 09/04/15 11:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:10	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 12:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:04	1
pH	8.77		0.200	0.200	SU			09/11/15 11:09	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 DUP (0-2)**

**Lab Sample ID: 500-100873-17**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 22:30	09/11/15 13:38	1
Dibromofluoromethane	100		75 - 120	09/04/15 22:30	09/11/15 13:38	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 22:30	09/11/15 13:38	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/11/15 13:38	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 DUP (0-2)**

**Lab Sample ID: 500-100873-17**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
<b>Fluoranthene</b>	<b>0.0083</b>	<b>J</b>	0.037	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 DUP (0-2)**

**Lab Sample ID: 500-100873-17**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	09/10/15 07:35	09/14/15 18:04	1
2-Fluorophenol	72		25 - 110	09/10/15 07:35	09/14/15 18:04	1
Nitrobenzene-d5	80		25 - 115	09/10/15 07:35	09/14/15 18:04	1
Phenol-d5	83		31 - 110	09/10/15 07:35	09/14/15 18:04	1
Terphenyl-d14	85		36 - 134	09/10/15 07:35	09/14/15 18:04	1
2,4,6-Tribromophenol	66		35 - 137	09/10/15 07:35	09/14/15 18:04	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.27</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Arsenic</b>	<b>6.9</b>		0.57	0.26	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Barium</b>	<b>55</b>		0.57	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.049	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Cadmium</b>	<b>0.27</b>		0.11	0.033	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Chromium</b>	<b>17</b>		0.57	0.097	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Cobalt</b>	<b>12</b>		0.28	0.064	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Copper</b>	<b>22</b>		0.57	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Lead</b>	<b>22</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Magnesium</b>	<b>31000</b>		5.7	2.3	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Calcium</b>	<b>66000</b>		110	37	mg/Kg	☼	09/10/15 12:00	09/11/15 15:07	10
<b>Manganese</b>	<b>400</b>		0.57	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Nickel</b>	<b>31</b>		0.57	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Thallium</b>	<b>0.44</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Vanadium</b>	<b>21</b>		0.28	0.083	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Zinc</b>	<b>58</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Potassium</b>	<b>2600</b>		28	4.6	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1
<b>Sodium</b>	<b>2800</b>		57	7.5	mg/Kg	☼	09/10/15 12:00	09/10/15 23:40	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 DUP (0-2)**

**Lab Sample ID: 500-100873-17**

Date Collected: 09/04/15 11:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1000</b>		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:41	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Magnesium</b>	<b>380</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Manganese</b>	<b>4.7</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Potassium</b>	<b>3.1</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Selenium</b>	<b>0.023</b>	<b>J</b>	0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:27	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:27	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:27	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.095</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Barium</b>	<b>0.91</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Beryllium</b>	<b>0.0099</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 17:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Calcium</b>	<b>48</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Chromium</b>	<b>0.25</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Cobalt</b>	<b>0.073</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Copper</b>	<b>0.26</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Iron</b>	<b>270</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Magnesium</b>	<b>58</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Nickel</b>	<b>0.27</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Potassium</b>	<b>49</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 17:11	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:11	1
<b>Zinc</b>	<b>0.75</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 17:11	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:11	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:19	1
<b>Thallium</b>	<b>0.0052</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:19	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B125 DUP (0-2)**

**Lab Sample ID: 500-100873-17**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:12	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:04	1
pH	8.64		0.200	0.200	SU			09/11/15 11:15	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B126 (0-2)**

**Lab Sample ID: 500-100873-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 22:30	09/11/15 14:03	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 14:03	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 22:30	09/11/15 14:03	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/11/15 14:03	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Acenaphthylene</b>	<b>0.015</b>	<b>J</b>	0.037	0.0049	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Benzo[a]anthracene</b>	<b>0.034</b>	<b>J</b>	0.037	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B126 (0-2)**

**Lab Sample ID: 500-100873-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.059</b>		0.037	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Benzo[b]fluoranthene</b>	<b>0.086</b>		0.037	0.0080	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Benzo[g,h,i]perylene</b>	<b>0.039</b>		0.037	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Benzo[k]fluoranthene</b>	<b>0.033</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Chrysene</b>	<b>0.043</b>		0.037	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Fluoranthene</b>	<b>0.063</b>		0.037	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.043</b>		0.037	0.0096	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B126 (0-2)**

**Lab Sample ID: 500-100873-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Phenanthrene</b>	<b>0.028</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
<b>Pyrene</b>	<b>0.059</b>		0.037	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	09/10/15 07:35	09/14/15 18:32	1
2-Fluorophenol	68		25 - 110	09/10/15 07:35	09/14/15 18:32	1
Nitrobenzene-d5	70		25 - 115	09/10/15 07:35	09/14/15 18:32	1
Phenol-d5	73		31 - 110	09/10/15 07:35	09/14/15 18:32	1
Terphenyl-d14	95		36 - 134	09/10/15 07:35	09/14/15 18:32	1
2,4,6-Tribromophenol	81		35 - 137	09/10/15 07:35	09/14/15 18:32	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.59</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Arsenic</b>	<b>6.6</b>		0.58	0.27	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Barium</b>	<b>33</b>		0.58	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.050	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Cadmium</b>	<b>0.19</b>		0.12	0.033	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Chromium</b>	<b>18</b>		0.58	0.099	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Cobalt</b>	<b>13</b>		0.29	0.065	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Copper</b>	<b>20</b>		0.58	0.13	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Magnesium</b>	<b>33000</b>		5.8	2.3	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Calcium</b>	<b>80000</b>		120	37	mg/Kg	☼	09/10/15 12:00	09/11/15 15:16	10
<b>Manganese</b>	<b>390</b>		0.58	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Nickel</b>	<b>32</b>		0.58	0.16	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/10/15 12:00	09/11/15 15:11	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.58	0.28	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Vanadium</b>	<b>22</b>		0.29	0.084	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Zinc</b>	<b>52</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Potassium</b>	<b>2600</b>		29	4.7	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1
<b>Sodium</b>	<b>3200</b>		58	7.6	mg/Kg	☼	09/10/15 12:00	09/10/15 23:52	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Cadmium</b>	<b>0.0028</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B126 (0-2)**

**Lab Sample ID: 500-100873-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1100</b>		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:52	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Cobalt</b>	<b>0.052</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Magnesium</b>	<b>310</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Manganese</b>	<b>6.2</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Nickel</b>	<b>0.032</b>		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Potassium</b>	<b>2.1 J</b>		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:32	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:32	1
<b>Zinc</b>	<b>0.42</b>		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:32	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.053</b>		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Barium</b>	<b>0.51</b>		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Beryllium</b>	<b>0.0072</b>		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 17:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Calcium</b>	<b>49</b>		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Copper</b>	<b>0.17</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Lead</b>	<b>0.090</b>		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Magnesium</b>	<b>49</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Potassium</b>	<b>37</b>		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 17:18	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Vanadium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:18	1
<b>Zinc</b>	<b>0.52</b>		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 17:18	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:12	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:20	1
<b>Thallium</b>	<b>0.0035</b>		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:20	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:15	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B126 (0-2)**

**Lab Sample ID: 500-100873-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:14	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.017	0.0059	mg/Kg	☼	09/11/15 17:00	09/14/15 12:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:05	1
pH	8.49		0.200	0.200	SU			09/11/15 11:21	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B127 (0-2)**

**Lab Sample ID: 500-100873-19**

**Date Collected: 09/04/15 11:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Dibromochloromethane	<0.0047		0.0047	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Vinyl acetate	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/11/15 14:28	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 14:28	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 22:30	09/11/15 14:28	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 14:28	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
<b>Benzo[a]anthracene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B127 (0-2)**

**Lab Sample ID: 500-100873-19**

**Date Collected: 09/04/15 11:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.028</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
<b>Chrysene</b>	<b>0.021</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
<b>Fluoranthene</b>	<b>0.032</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B127 (0-2)**

**Lab Sample ID: 500-100873-19**

Date Collected: 09/04/15 11:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
<b>Phenanthrene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
<b>Pyrene</b>	<b>0.030</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:35	09/14/15 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	09/10/15 07:35	09/14/15 19:00	1
2-Fluorophenol	74		25 - 110	09/10/15 07:35	09/14/15 19:00	1
Nitrobenzene-d5	88		25 - 115	09/10/15 07:35	09/14/15 19:00	1
Phenol-d5	82		31 - 110	09/10/15 07:35	09/14/15 19:00	1
Terphenyl-d14	97		36 - 134	09/10/15 07:35	09/14/15 19:00	1
2,4,6-Tribromophenol	77		35 - 137	09/10/15 07:35	09/14/15 19:00	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.42</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Arsenic</b>	<b>7.5</b>		0.58	0.27	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Barium</b>	<b>54</b>		0.58	0.11	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Beryllium</b>	<b>0.73</b>		0.23	0.051	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Cadmium</b>	<b>0.27</b>		0.12	0.034	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Chromium</b>	<b>19</b>		0.58	0.10	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Cobalt</b>	<b>12</b>		0.29	0.066	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Copper</b>	<b>21</b>		0.58	0.13	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Iron</b>	<b>20000</b>		12	4.5	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Lead</b>	<b>22</b>		0.29	0.15	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Magnesium</b>	<b>22000</b>		5.8	2.4	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Calcium</b>	<b>35000</b>		12	3.8	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Manganese</b>	<b>400</b>		0.58	0.12	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Nickel</b>	<b>33</b>		0.58	0.16	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/10/15 12:00	09/11/15 15:28	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Vanadium</b>	<b>26</b>		0.29	0.085	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Potassium</b>	<b>2900</b>		29	4.8	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1
<b>Sodium</b>	<b>3000</b>		58	7.7	mg/Kg	☼	09/10/15 12:00	09/10/15 23:57	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:37	1
<b>Cadmium</b>	<b>0.0035</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B127 (0-2)**

**Lab Sample ID: 500-100873-19**

Date Collected: 09/04/15 11:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000		25	5.0	mg/L		09/14/15 10:00	09/15/15 18:56	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
Cobalt	0.035		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
Copper	0.016	J	0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
Iron	<0.20		0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:37	1
Magnesium	300		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:37	1
Manganese	7.3		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
Nickel	0.034		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
Potassium	2.1	J	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:37	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:37	1
Zinc	0.18		0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:37	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.075		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Barium	0.81		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 17:25	1
Beryllium	0.0087		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 17:25	1
Calcium	62		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 17:25	1
Chromium	0.21		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Cobalt	0.067		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Copper	0.23		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Iron	200		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 17:25	1
Lead	0.17		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 17:25	1
Magnesium	59		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:25	1
Manganese	1.3		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Nickel	0.24		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Potassium	45		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 17:25	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Vanadium	0.22		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:25	1
Zinc	0.56		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 17:25	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:13	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:21	1
Thallium	0.0038		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:21	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:17	1

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**Lab Sample ID: 500-100873-19**

Date Collected: 09/04/15 11:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 12:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/11/15 13:40	09/11/15 16:05	1
pH	8.40		0.200	0.200	SU			09/11/15 11:27	1



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TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B128 (0-2)**

**Lab Sample ID: 500-100873-20**

**Date Collected: 09/04/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 22:30	09/11/15 14:53	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/11/15 14:53	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 22:30	09/11/15 14:53	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 22:30	09/11/15 14:53	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
<b>Benzo[a]anthracene</b>	<b>0.014</b>	<b>J</b>	0.036	0.0048	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1

TestAmerica Chicago

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**Lab Sample ID: 500-100873-20**

**Date Collected: 09/04/15 10:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
<b>Benzo[b]fluoranthene</b>	<b>0.028</b>	<b>J</b>	0.036	0.0078	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.036	0.0098	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
<b>Fluoranthene</b>	<b>0.030</b>	<b>J</b>	0.036	0.0067	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Hexachlorobenzene	<0.073		0.073	0.0083	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1

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**Lab Sample ID: 500-100873-20**

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Matrix: Solid

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Percent Solids: 87.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
<b>Phenanthrene</b>	<b>0.019</b>	<b>J</b>	0.036	0.0050	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
<b>Pyrene</b>	<b>0.030</b>	<b>J</b>	0.036	0.0071	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:35	09/14/15 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	09/10/15 07:35	09/14/15 19:28	1
2-Fluorophenol	76		25 - 110	09/10/15 07:35	09/14/15 19:28	1
Nitrobenzene-d5	86		25 - 115	09/10/15 07:35	09/14/15 19:28	1
Phenol-d5	82		31 - 110	09/10/15 07:35	09/14/15 19:28	1
Terphenyl-d14	101		36 - 134	09/10/15 07:35	09/14/15 19:28	1
2,4,6-Tribromophenol	80		35 - 137	09/10/15 07:35	09/14/15 19:28	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.58</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Arsenic</b>	<b>9.4</b>		0.57	0.26	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Barium</b>	<b>60</b>		0.57	0.10	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Beryllium</b>	<b>0.44</b>		0.23	0.049	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.033	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Chromium</b>	<b>12</b>		0.57	0.098	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Copper</b>	<b>22</b>		0.57	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Lead</b>	<b>21</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Magnesium</b>	<b>37000</b>		5.7	2.3	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Calcium</b>	<b>90000</b>		110	37	mg/Kg	☼	09/10/15 12:00	09/11/15 15:38	10
<b>Manganese</b>	<b>490</b>		0.57	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Nickel</b>	<b>25</b>		0.57	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 15:33	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Vanadium</b>	<b>18</b>		0.28	0.083	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Zinc</b>	<b>70</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Potassium</b>	<b>1500</b>		28	4.6	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1
<b>Sodium</b>	<b>1800</b>		57	7.5	mg/Kg	☼	09/10/15 12:00	09/11/15 00:02	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
<b>Barium</b>	<b>0.68</b>		0.50	0.050	mg/L		09/14/15 10:00	09/14/15 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 10:00	09/14/15 23:50	1
<b>Cadmium</b>	<b>0.0045</b>	<b>J</b>	0.0050	0.0020	mg/L		09/14/15 10:00	09/14/15 23:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B128 (0-2)**

**Lab Sample ID: 500-100873-20**

Date Collected: 09/04/15 10:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	810		25	5.0	mg/L		09/14/15 10:00	09/15/15 19:00	10
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
Cobalt	0.060		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
Iron	1.1	^	0.20	0.20	mg/L		09/14/15 10:00	09/14/15 23:50	1
Lead	0.042		0.0075	0.0075	mg/L		09/14/15 10:00	09/14/15 23:50	1
Magnesium	370		2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:50	1
Manganese	12		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
Nickel	0.052		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
Potassium	1.9	J	2.5	0.50	mg/L		09/14/15 10:00	09/14/15 23:50	1
Selenium	0.021	J	0.050	0.020	mg/L		09/14/15 10:00	09/14/15 23:50	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 10:00	09/14/15 23:50	1
Zinc	0.71	F1	0.10	0.020	mg/L		09/14/15 10:00	09/14/15 23:50	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.089		0.050	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Barium	0.53		0.50	0.050	mg/L		09/13/15 18:10	09/14/15 17:45	1
Beryllium	0.0059		0.0040	0.0040	mg/L		09/13/15 18:10	09/14/15 17:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/13/15 18:10	09/14/15 17:45	1
Calcium	32		6.0	0.50	mg/L		09/13/15 18:10	09/14/15 17:45	1
Chromium	0.14		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Cobalt	0.076		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Copper	0.21		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Iron	190		0.20	0.20	mg/L		09/13/15 18:10	09/14/15 17:45	1
Lead	0.24		0.0075	0.0075	mg/L		09/13/15 18:10	09/14/15 17:45	1
Magnesium	33		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:45	1
Manganese	2.1		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Nickel	0.20		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Potassium	26		2.5	0.50	mg/L		09/13/15 18:10	09/14/15 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/13/15 18:10	09/14/15 17:45	1
Silver	<0.025		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Vanadium	0.19		0.025	0.010	mg/L		09/13/15 18:10	09/14/15 17:45	1
Zinc	0.58		0.50	0.020	mg/L		09/13/15 18:10	09/14/15 17:45	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 10:00	09/15/15 11:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 10:00	09/15/15 11:14	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/13/15 18:10	09/15/15 15:24	1
Thallium	0.0052		0.0020	0.0020	mg/L		09/13/15 18:10	09/15/15 15:24	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 16:00	09/15/15 14:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B128 (0-2)**

**Lab Sample ID: 500-100873-20**

Date Collected: 09/04/15 10:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 12:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/11/15 13:40	09/11/15 16:05	1
pH	8.11		0.200	0.200	SU			09/11/15 11:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B129 (0-2)**

**Lab Sample ID: 500-100873-21**

**Date Collected: 09/04/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Bromomethane	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Carbon disulfide	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,2-Dichloroethane	<0.0048		0.0048	0.00070	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/11/15 15:19	1
Dibromofluoromethane	99		75 - 120	09/04/15 22:30	09/11/15 15:19	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	09/04/15 22:30	09/11/15 15:19	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 15:19	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
<b>Benzo[a]anthracene</b>	<b>0.0052</b>	<b>J</b>	0.037	0.0050	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B129 (0-2)**

**Lab Sample ID: 500-100873-21**

**Date Collected: 09/04/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
<b>Fluoranthene</b>	<b>0.0092</b>	<b>J</b>	0.037	0.0069	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B129 (0-2)**

**Lab Sample ID: 500-100873-21**

Date Collected: 09/04/15 10:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
<b>Phenanthrene</b>	<b>0.0053</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
<b>Pyrene</b>	<b>0.0098</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/10/15 07:29	09/15/15 05:01	1
2-Fluorophenol	94		25 - 110	09/10/15 07:29	09/15/15 05:01	1
Nitrobenzene-d5	92		25 - 115	09/10/15 07:29	09/15/15 05:01	1
Phenol-d5	97		31 - 110	09/10/15 07:29	09/15/15 05:01	1
Terphenyl-d14	101		36 - 134	09/10/15 07:29	09/15/15 05:01	1
2,4,6-Tribromophenol	59		35 - 137	09/10/15 07:29	09/15/15 05:01	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.49</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Arsenic</b>	<b>9.5</b>		0.57	0.26	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Barium</b>	<b>54</b>		0.57	0.10	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Beryllium</b>	<b>0.58</b>		0.23	0.049	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Cadmium</b>	<b>0.33</b>		0.11	0.033	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Chromium</b>	<b>16</b>		0.57	0.097	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Copper</b>	<b>24</b>		0.57	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Lead</b>	<b>60</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Magnesium</b>	<b>25000</b>		5.7	2.3	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Calcium</b>	<b>57000</b>		110	36	mg/Kg	☼	09/10/15 12:00	09/11/15 15:47	10
<b>Manganese</b>	<b>420</b>		0.57	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Nickel</b>	<b>27</b>		0.57	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 15:42	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Thallium</b>	<b>0.44</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Vanadium</b>	<b>21</b>		0.28	0.083	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Zinc</b>	<b>92</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Potassium</b>	<b>1900</b>		28	4.6	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1
<b>Sodium</b>	<b>1400</b>		57	7.5	mg/Kg	☼	09/10/15 12:00	09/11/15 00:07	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 12:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 12:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 12:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B129 (0-2)**

**Lab Sample ID: 500-100873-21**

**Date Collected: 09/04/15 10:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>320</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 12:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 12:04	1
<b>Magnesium</b>	<b>83</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:04	1
<b>Manganese</b>	<b>4.5</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
<b>Potassium</b>	<b>2.3</b>	<b>J</b>	2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 12:04	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:04	1
<b>Zinc</b>	<b>0.062</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 15:00	09/17/15 12:04	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Barium</b>	<b>0.82</b>	<b>B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Beryllium</b>	<b>0.0065</b>		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 20:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Calcium</b>	<b>44</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Cobalt</b>	<b>0.098</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Copper</b>	<b>0.26</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Iron</b>	<b>220</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Lead</b>	<b>0.21</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Magnesium</b>	<b>36</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Manganese</b>	<b>2.7</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Potassium</b>	<b>18</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 20:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 20:37	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Vanadium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 20:37	1
<b>Zinc</b>	<b>0.82</b>	<b>B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 20:37	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:45	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:26	1
<b>Thallium</b>	<b>0.0047</b>		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:26	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B129 (0-2)**

**Lab Sample ID: 500-100873-21**

Date Collected: 09/04/15 10:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:03	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0067	mg/Kg	☼	09/11/15 17:00	09/14/15 12:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:05	1
pH	8.45		0.200	0.200	SU			09/11/15 11:39	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B130 (0-2)**

**Lab Sample ID: 500-100873-22**

**Date Collected: 09/04/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 22:30	09/11/15 15:44	1
Dibromofluoromethane	99		75 - 120	09/04/15 22:30	09/11/15 15:44	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 22:30	09/11/15 15:44	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/11/15 15:44	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B130 (0-2)**

**Lab Sample ID: 500-100873-22**

**Date Collected: 09/04/15 10:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
<b>Fluoranthene</b>	<b>0.0074 J</b>		0.038	0.0071	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B130 (0-2)**

**Lab Sample ID: 500-100873-22**

Date Collected: 09/04/15 10:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	09/10/15 07:29	09/15/15 03:28	1
2-Fluorophenol	82		25 - 110	09/10/15 07:29	09/15/15 03:28	1
Nitrobenzene-d5	77		25 - 115	09/10/15 07:29	09/15/15 03:28	1
Phenol-d5	80		31 - 110	09/10/15 07:29	09/15/15 03:28	1
Terphenyl-d14	90		36 - 134	09/10/15 07:29	09/15/15 03:28	1
2,4,6-Tribromophenol	73		35 - 137	09/10/15 07:29	09/15/15 03:28	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.55</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Arsenic</b>	<b>11</b>		0.59	0.27	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Barium</b>	<b>58</b>		0.59	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.051	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Cadmium</b>	<b>0.30</b>		0.12	0.034	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Chromium</b>	<b>16</b>		0.59	0.10	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Cobalt</b>	<b>15</b>		0.29	0.066	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Copper</b>	<b>25</b>		0.59	0.13	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Iron</b>	<b>23000</b>		12	4.5	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Lead</b>	<b>24</b>		0.29	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Magnesium</b>	<b>27000</b>		5.9	2.4	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Calcium</b>	<b>63000</b>		120	38	mg/Kg	☼	09/10/15 12:00	09/11/15 15:55	10
<b>Manganese</b>	<b>780</b>		0.59	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Nickel</b>	<b>33</b>		0.59	0.16	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Selenium</b>	<b>0.42</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/10/15 12:00	09/11/15 15:51	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Thallium</b>	<b>0.38</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Vanadium</b>	<b>23</b>		0.29	0.086	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Zinc</b>	<b>75</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Potassium</b>	<b>2100</b>		29	4.8	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1
<b>Sodium</b>	<b>2000</b>		59	7.7	mg/Kg	☼	09/10/15 12:00	09/11/15 00:12	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
<b>Barium</b>	<b>0.62</b>		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 12:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 12:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 12:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B130 (0-2)**

**Lab Sample ID: 500-100873-22**

Date Collected: 09/04/15 10:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 12:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 12:24	1
<b>Magnesium</b>	<b>74</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:24	1
<b>Manganese</b>	<b>7.6</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
<b>Potassium</b>	<b>3.6</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 12:24	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:24	1
<b>Zinc</b>	<b>0.087</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 15:00	09/17/15 12:24	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Barium</b>	<b>1.0</b>	<b>B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Beryllium</b>	<b>0.0076</b>		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 21:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Calcium</b>	<b>42</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Cobalt</b>	<b>0.097</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Copper</b>	<b>0.27</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Lead</b>	<b>0.20</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Magnesium</b>	<b>37</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Manganese</b>	<b>2.7</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Nickel</b>	<b>0.27</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Potassium</b>	<b>21</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:19	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 21:19	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:19	1
<b>Zinc</b>	<b>0.99</b>	<b>B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 21:19	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:48	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:30	1
<b>Thallium</b>	<b>0.0046</b>		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:30	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B130 (0-2)**

**Lab Sample ID: 500-100873-22**

Date Collected: 09/04/15 10:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.020	0.0068	mg/Kg	☼	09/11/15 17:00	09/14/15 12:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:06	1
pH	8.13		0.200	0.200	SU			09/11/15 11:45	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B131 (0-2)**

**Lab Sample ID: 500-100873-23**

**Date Collected: 09/04/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,3-Dichloropropane, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Toluene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 22:30	09/11/15 16:09	1
Dibromofluoromethane	106		75 - 120	09/04/15 22:30	09/11/15 16:09	1
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	09/04/15 22:30	09/11/15 16:09	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 16:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Anthracene</b>	<b>0.0097</b>	<b>J</b>	0.038	0.0064	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Benzo[a]anthracene</b>	<b>0.043</b>		0.038	0.0052	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B131 (0-2)**

**Lab Sample ID: 500-100873-23**

**Date Collected: 09/04/15 10:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.045</b>		0.038	0.0074	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Benzo[b]fluoranthene</b>	<b>0.070</b>		0.038	0.0083	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Benzo[k]fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Chrysene</b>	<b>0.048</b>		0.038	0.010	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Fluoranthene</b>	<b>0.071</b>		0.038	0.0071	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0099	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B131 (0-2)**

**Lab Sample ID: 500-100873-23**

Date Collected: 09/04/15 10:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.3

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Phenanthrene</b>	<b>0.023</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
<b>Pyrene</b>	<b>0.065</b>		0.038	0.0076	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/10/15 07:29	09/15/15 03:51	1
2-Fluorophenol	95		25 - 110	09/10/15 07:29	09/15/15 03:51	1
Nitrobenzene-d5	93		25 - 115	09/10/15 07:29	09/15/15 03:51	1
Phenol-d5	99		31 - 110	09/10/15 07:29	09/15/15 03:51	1
Terphenyl-d14	96		36 - 134	09/10/15 07:29	09/15/15 03:51	1
2,4,6-Tribromophenol	75		35 - 137	09/10/15 07:29	09/15/15 03:51	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Arsenic</b>	<b>9.1</b>		0.59	0.27	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Barium</b>	<b>75</b>		0.59	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Beryllium</b>	<b>0.68</b>		0.24	0.051	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Cadmium</b>	<b>0.33</b>		0.12	0.034	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Chromium</b>	<b>18</b>		0.59	0.10	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Cobalt</b>	<b>12</b>		0.30	0.067	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Copper</b>	<b>21</b>		0.59	0.13	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Iron</b>	<b>22000</b>		12	4.6	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Lead</b>	<b>39</b>		0.30	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Magnesium</b>	<b>18000</b>		5.9	2.4	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Calcium</b>	<b>29000</b>		12	3.8	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Manganese</b>	<b>500</b>		0.59	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Nickel</b>	<b>31</b>		0.59	0.16	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/10/15 12:00	09/11/15 15:59	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Thallium</b>	<b>0.44</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Vanadium</b>	<b>26</b>		0.30	0.086	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Zinc</b>	<b>80</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Potassium</b>	<b>2200</b>		30	4.8	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1
<b>Sodium</b>	<b>2500</b>		59	7.8	mg/Kg	☼	09/10/15 12:00	09/11/15 00:17	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 12:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 12:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 12:29	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B131 (0-2)**

**Lab Sample ID: 500-100873-23**

Date Collected: 09/04/15 10:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>290</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 12:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 12:29	1
<b>Magnesium</b>	<b>97</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:29	1
<b>Manganese</b>	<b>0.078</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
<b>Potassium</b>	<b>2.5</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 12:29	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:29	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 12:29	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.10</b>		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Barium</b>	<b>0.92</b>	<b>B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Beryllium</b>	<b>0.0072</b>		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 21:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Calcium</b>	<b>45</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Cobalt</b>	<b>0.068</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Lead</b>	<b>0.21</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Magnesium</b>	<b>35</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Nickel</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Potassium</b>	<b>17</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 21:26	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Vanadium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:26	1
<b>Zinc</b>	<b>0.79</b>	<b>B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 21:26	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:49	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:31	1
<b>Thallium</b>	<b>0.0037</b>		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:31	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B131 (0-2)**

**Lab Sample ID: 500-100873-23**

Date Collected: 09/04/15 10:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:11	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0070	mg/Kg	☼	09/11/15 17:00	09/14/15 12:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/11/15 13:40	09/11/15 16:06	1
pH	8.63		0.200	0.200	SU			09/11/15 11:51	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B132 (0-2)**

**Lab Sample ID: 500-100873-24**

**Date Collected: 09/04/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 22:30	09/11/15 16:34	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/11/15 16:34	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 22:30	09/11/15 16:34	1
Toluene-d8 (Surr)	118		75 - 122	09/04/15 22:30	09/11/15 16:34	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
<b>Benzo[a]anthracene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B132 (0-2)**

**Lab Sample ID: 500-100873-24**

**Date Collected: 09/04/15 10:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0084	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
<b>Fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B132 (0-2)**

**Lab Sample ID: 500-100873-24**

Date Collected: 09/04/15 10:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.3

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
<b>Phenanthrene</b>	<b>0.0079</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119				09/10/15 07:29	09/15/15 04:15	1
2-Fluorophenol	99		25 - 110				09/10/15 07:29	09/15/15 04:15	1
Nitrobenzene-d5	94		25 - 115				09/10/15 07:29	09/15/15 04:15	1
Phenol-d5	77		31 - 110				09/10/15 07:29	09/15/15 04:15	1
Terphenyl-d14	98		36 - 134				09/10/15 07:29	09/15/15 04:15	1
2,4,6-Tribromophenol	85		35 - 137				09/10/15 07:29	09/15/15 04:15	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.23</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Arsenic</b>	<b>9.0</b>		0.55	0.25	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Barium</b>	<b>70</b>		0.55	0.10	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Beryllium</b>	<b>0.64</b>		0.22	0.048	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.032	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Chromium</b>	<b>16</b>		0.55	0.095	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Cobalt</b>	<b>11</b>		0.27	0.062	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Copper</b>	<b>22</b>		0.55	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Iron</b>	<b>22000</b>		11	4.2	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Lead</b>	<b>45</b>		0.27	0.14	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Magnesium</b>	<b>18000</b>		5.5	2.2	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Calcium</b>	<b>30000</b>		11	3.5	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Manganese</b>	<b>420</b>		0.55	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Nickel</b>	<b>28</b>		0.55	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 12:00	09/11/15 16:04	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Vanadium</b>	<b>24</b>		0.27	0.080	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Zinc</b>	<b>78</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Potassium</b>	<b>1900</b>		27	4.5	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1
<b>Sodium</b>	<b>2000</b>		55	7.3	mg/Kg	☼	09/10/15 12:00	09/11/15 00:22	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 12:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 12:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 12:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B132 (0-2)**

**Lab Sample ID: 500-100873-24**

Date Collected: 09/04/15 10:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>310</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 12:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 12:34	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:34	1
<b>Manganese</b>	<b>0.46</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 12:34	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:34	1
<b>Zinc</b>	<b>0.25</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 12:34	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Barium</b>	<b>0.82</b>	<b>B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Beryllium</b>	<b>0.0068</b>		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 21:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Calcium</b>	<b>44</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Cobalt</b>	<b>0.074</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Lead</b>	<b>0.32</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Magnesium</b>	<b>32</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Potassium</b>	<b>18</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 21:33	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Vanadium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:33	1
<b>Zinc</b>	<b>0.89</b>	<b>B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 21:33	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:50	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:32	1
<b>Thallium</b>	<b>0.0040</b>		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:32	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B132 (0-2)**

**Lab Sample ID: 500-100873-24**

Date Collected: 09/04/15 10:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:13	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0067	mg/Kg	☼	09/11/15 17:00	09/14/15 12:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:06	1
pH	8.69		0.200	0.200	SU			09/11/15 11:57	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (0-6)**

**Lab Sample ID: 500-100873-25**

**Date Collected: 09/04/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.5**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/11/15 16:59	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 16:59	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/04/15 22:30	09/11/15 16:59	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 16:59	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (0-6)**

**Lab Sample ID: 500-100873-25**

**Date Collected: 09/04/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (0-6)**

**Lab Sample ID: 500-100873-25**

Date Collected: 09/04/15 14:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	09/10/15 07:29	09/14/15 19:55	1
2-Fluorophenol	80		25 - 110	09/10/15 07:29	09/14/15 19:55	1
Nitrobenzene-d5	93		25 - 115	09/10/15 07:29	09/14/15 19:55	1
Phenol-d5	86		31 - 110	09/10/15 07:29	09/14/15 19:55	1
Terphenyl-d14	101		36 - 134	09/10/15 07:29	09/14/15 19:55	1
2,4,6-Tribromophenol	68		35 - 137	09/10/15 07:29	09/14/15 19:55	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.37</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Arsenic</b>	<b>5.4</b>		0.57	0.26	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Barium</b>	<b>46</b>		0.57	0.10	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Beryllium</b>	<b>0.66</b>		0.23	0.049	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Cadmium</b>	<b>0.16</b>		0.11	0.033	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Chromium</b>	<b>17</b>		0.57	0.098	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Copper</b>	<b>20</b>		0.57	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Iron</b>	<b>17000</b>		11	4.4	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Lead</b>	<b>11</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Magnesium</b>	<b>39000</b>		5.7	2.3	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Calcium</b>	<b>79000</b>		110	37	mg/Kg	☼	09/10/15 12:00	09/11/15 16:23	10
<b>Manganese</b>	<b>310</b>		0.57	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Nickel</b>	<b>29</b>		0.57	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 16:09	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Thallium</b>	<b>0.35</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Vanadium</b>	<b>19</b>		0.28	0.083	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Zinc</b>	<b>45</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Potassium</b>	<b>2500</b>		28	4.6	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1
<b>Sodium</b>	<b>380</b>		57	7.5	mg/Kg	☼	09/10/15 12:00	09/11/15 00:26	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 12:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 12:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 12:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (0-6)**

**Lab Sample ID: 500-100873-25**

**Date Collected: 09/04/15 14:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 85.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>370</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:39	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 12:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 12:39	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:39	1
<b>Manganese</b>	<b>0.036</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
<b>Potassium</b>	<b>2.3 J</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 12:39	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:39	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 12:39	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Barium</b>	<b>0.17 J B</b>		0.50	0.050	mg/L		09/14/15 11:00	09/14/15 21:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 21:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Calcium</b>	<b>20 B</b>		6.0	0.50	mg/L		09/14/15 11:00	09/14/15 21:40	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Copper</b>	<b>0.015 J</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Iron</b>	<b>2.8</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 21:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Magnesium</b>	<b>7.7 B</b>		2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Manganese</b>	<b>0.038</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Potassium</b>	<b>2.5 B</b>		2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 21:40	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:40	1
<b>Zinc</b>	<b>0.33 J B</b>		0.50	0.020	mg/L		09/14/15 11:00	09/14/15 21:40	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:51	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:35	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (0-6)**

**Lab Sample ID: 500-100873-25**

Date Collected: 09/04/15 14:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 85.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:15	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 12:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:07	1
pH	8.10		0.200	0.200	SU			09/11/15 12:03	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (6-13)**

**Lab Sample ID: 500-100873-26**

**Date Collected: 09/04/15 14:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Bromoform	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Chloroethane	<0.0046		0.0046	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Chloroform	<0.0046		0.0046	0.00091	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,1-Dichloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Ethylbenzene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Tetrachloroethene	<0.0046		0.0046	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	09/04/15 22:30	09/11/15 17:24	1
Dibromofluoromethane	99		75 - 120	09/04/15 22:30	09/11/15 17:24	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 22:30	09/11/15 17:24	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 17:24	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (6-13)**

**Lab Sample ID: 500-100873-26**

**Date Collected: 09/04/15 14:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (6-13)**

**Lab Sample ID: 500-100873-26**

Date Collected: 09/04/15 14:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/10/15 07:29	09/14/15 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/10/15 07:29	09/14/15 20:23	1
2-Fluorophenol	75		25 - 110	09/10/15 07:29	09/14/15 20:23	1
Nitrobenzene-d5	87		25 - 115	09/10/15 07:29	09/14/15 20:23	1
Phenol-d5	86		31 - 110	09/10/15 07:29	09/14/15 20:23	1
Terphenyl-d14	95		36 - 134	09/10/15 07:29	09/14/15 20:23	1
2,4,6-Tribromophenol	50		35 - 137	09/10/15 07:29	09/14/15 20:23	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.24</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Arsenic</b>	<b>5.2</b>		0.57	0.26	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Barium</b>	<b>39</b>		0.57	0.10	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Beryllium</b>	<b>0.64</b>		0.23	0.049	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Cadmium</b>	<b>0.18</b>		0.11	0.033	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Chromium</b>	<b>18</b>		0.57	0.098	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Cobalt</b>	<b>13</b>		0.28	0.064	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Copper</b>	<b>20</b>		0.57	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Iron</b>	<b>17000</b>		11	4.4	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Lead</b>	<b>12</b>		0.28	0.14	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Magnesium</b>	<b>35000</b>		5.7	2.3	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Calcium</b>	<b>96000</b>		110	37	mg/Kg	☼	09/10/15 12:00	09/11/15 16:32	10
<b>Manganese</b>	<b>360</b>		0.57	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Nickel</b>	<b>33</b>		0.57	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 16:27	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Vanadium</b>	<b>19</b>		0.28	0.083	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Potassium</b>	<b>2800</b>		28	4.7	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1
<b>Sodium</b>	<b>320</b>		57	7.5	mg/Kg	☼	09/10/15 12:00	09/11/15 00:31	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 12:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 12:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 12:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (6-13)**

**Lab Sample ID: 500-100873-26**

Date Collected: 09/04/15 14:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>480</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 12:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 12:52	1
<b>Magnesium</b>	<b>64</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:52	1
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 12:52	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:52	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 12:52	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.027</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Barium</b>	<b>0.35</b>	<b>J B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 21:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 21:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Calcium</b>	<b>68</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Chromium</b>	<b>0.067</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Copper</b>	<b>0.10</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Iron</b>	<b>71</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Lead</b>	<b>0.038</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Magnesium</b>	<b>34</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Nickel</b>	<b>0.091</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Potassium</b>	<b>13</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:46	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 21:46	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Vanadium</b>	<b>0.063</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:46	1
<b>Zinc</b>	<b>0.28</b>	<b>J B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 21:46	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:54	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:36	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:45	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

**Client Sample ID: 2618-7-B159 (6-13)**

**Lab Sample ID: 500-100873-26**

Date Collected: 09/04/15 14:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:17	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0065	mg/Kg	☼	09/11/15 17:00	09/14/15 12:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/11/15 13:40	09/11/15 16:08	1
pH	8.42		0.200	0.200	SU			09/11/15 12:09	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 1  
Phone: 708.534.5200 Fax: 708.534.5200



500-100873 COC

Report To (optional)  
Contact: Matt Weiss  
Company: Terracon  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100873

Chain of Custody Number: \_\_\_\_\_

Page 26, 3, 2, 3, 6, 2, 4  
2, 8, 3, 2, 3, 7, 2, 7, 2, 4, 3, 1, 3, 0  
Temperature of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
Project Name		11157108																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #																		
<u>Hoffman Estates, IL</u>																				
Sampler		Lab PM																		
<u>Chad Kelly</u>																				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	Total 24 Inorganic	TCLP 24 Inorganic	SPLP 24 Inorganic	PH							Comments	
			Date	Time																
1		2618-7-B80 (0-2)	9/4/15	9:15	6	S	✓	✓	✓	✓	✓	✓								
2		2618-7-B80 Dup (0-2)	9/4/15	9:20	6	S	✓	✓	✓	✓	✓	✓								
3		2618-7-B81 (0-2)	9/4/15	9:05	6	S	✓	✓	✓	✓	✓	✓								
4		2618-7-B82 (0-2)	9/4/15	8:55	6	S	✓	✓	✓	✓	✓	✓								
5		2618-7-B83 (0-2)	9/4/15	9:45	6	S	✓	✓	✓	✓	✓	✓								
6		2618-7-B115 (0-2)	9/4/15	1:50	6	S	✓	✓	✓	✓	✓	✓								
7		2618-7-B116 (0-2)	9/4/15	1:40	6	S	✓	✓	✓	✓	✓	✓								
8		2618-7-B117 (0-2)	9/4/15	1:30	6	S	✓	✓	✓	✓	✓	✓								
9		2618-7-B118 (0-2)	9/4/15	1:15	6	S	✓	✓	✓	✓	✓	✓								
10		2618-7-B119 (0-2)	9/4/15	1:05	6	S	✓	✓	✓	✓	✓	✓								

Turnaround Time Required (Business Days)

Requested Due Date:  1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Chad Kelly</u>	Company: <u>Terracon</u>	Date: <u>9/4/15</u>	Time: <u>9:15</u>	Received By: <u>D. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>1520</u>
Relinquished By: <u>D. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>1855</u>	Received By: <u>Shawn Scott</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>2100</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WL - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: met IL TACO requirements  
Please do not run aluminum for Total/  
TCLP/ SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.6211

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: Matt Weiss Contact: \_\_\_\_\_  
 Company: Terracon Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100873  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter										Preservative Key		
Project Name		Project Location/State		Lab Project #												1. HCL, Cool to 4°		
Sampler		Lab PM														2. H2SO4, Cool to 4°		
Lab ID	MIS/MSD	Sample ID	Sampling		# of Containers	Matrix	NOCS	SNOCs	Total 24 Inorganics	TCP 24 Inorganics	SPLP 24 Inorganics	PH					Comments	
			Date	Time														
11		2618-7-B120 (0-2)	9/4/15	12:55	6	S	✓	✓	✓	✓	✓	✓						
12		2618-7-B121 (0-2)	9/4/15	12:45	6	S	✓	✓	✓	✓	✓	✓						
13		2618-7-B122 (0-2)	9/4/15	12:05	6	S	✓	✓	✓	✓	✓	✓						
14		2618-7-B123 (0-2)	9/4/15	11:55	6	S	✓	✓	✓	✓	✓	✓						
15		2618-7-B124 (0-2)	9/4/15	11:40	6	S	✓	✓	✓	✓	✓	✓						
16		2618-7-B125 (0-2)	9/4/15	11:25	6	S	✓	✓	✓	✓	✓	✓						
17		2618-7-B125 Dup (0-2)	9/4/15	11:30	6	S	✓	✓	✓	✓	✓	✓						
18		2618-7-B126 (0-2)	9/4/15	11:15	6	S	✓	✓	✓	✓	✓	✓						
19		2618-7-B127 (0-2)	9/4/15	11:05	6	S	✓	✓	✓	✓	✓	✓						
20		2618-7-B128 (0-2)	9/4/15	10:55	6	S	✓	✓	✓	✓	✓	✓						

Turnaround Time Required (Business Days) \_\_\_\_\_  
 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_  
 Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>9/4/15</u>	Time <u>11:15</u>	Received By <u>P. Naylor</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>1620</u>	Lab Courier <u>TA</u>
Relinquished By <u>J. Neal</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>(18:55)</u>	Received By <u>Sherrill Scott</u>	Company <u>TA-CPL</u>	Date <u>9/4/15</u>	Time <u>2:00</u>	Shipped
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: Meet IL TAZO requirements. Please do not run aluminum for Total/TCLP/SPLP analyis. Thank you.

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: Matt Weiss \_\_\_\_\_  
 Company: Terracon \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100873  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
Project Name		11157108																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #																		
<u>Hoffman Estates, IL</u>																				
Sampler		Lab PM																		
<u>Cheryl Kelly</u>																				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCS	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	PH							Comments	
			Date	Time																
21		2618-7-B129 (0-2)	9/4/15	10:45	6	S	✓	✓	✓	✓	✓	✓								
22		2618-7-B130 (0-2)	9/4/15	10:30	6	S	✓	✓	✓	✓	✓	✓								
23		2618-7-B131 (0-2)	9/4/15	10:20	6	S	✓	✓	✓	✓	✓	✓								
24		2618-7-B132 (0-2)	9/4/15	10:10	6	S	✓	✓	✓	✓	✓	✓								
25		2618-7-B159 (0-6)	9/4/15	2:05	6	S	✓	✓	✓	✓	✓	✓								
26		2618-7-B159 (6-13)	9/4/15	2:10	6	S	✓	✓	✓	✓	✓	✓								

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days X 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Cheryl Kelly</u>	Company <u>Terracon</u>	Date <u>9/4/15</u>	Time <u>4:15</u>	Received By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>1620</u>
Relinquished By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>1855</u>	Received By <u>Sherrill Scott</u>	Company <u>TA-CHI</u>	Date <u>9/4/15</u>	Time <u>2100</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: Meet IL TACO Requirements  
Please DO NOT run Aluminum for total  
TCLP / SPLP Analysis. Thank you

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100873-1

**Login Number: 100873**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100839-1

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/16/2015 5:14:03 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Job ID: 500-100839-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100839-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 2.3° C, 2.5° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.3° C, 3.6° C and 4.0° C.

#### Receipt Exceptions

Bottles for samples 5-11 have ID of 2618, COC has 2168, logged per bottles. COC has pH for water sample 11, however the lab did not receive an unpreserved bottle, and pH was not logged in. Received sample 12 not on COC, added to COC and logged in. Only received 6 bottles received for sample 11, COC has 7.

#### GC/MS VOA

Method(s) 8260B:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 3541: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 303593 had 1 analyte outside control limits: 2,4-Dinitrophenol; therefore, corrective action was not performed. These results have been reported and qualified. 2618-7-B160 (0-6) (500-100839-5) and 2618-7-B160 (6-13) (500-100839-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The following samples was diluted due to the abundance of non-target analytes: 2618-7-B112 (0-2) (500-100839-1), 2618-7-B113 (0-2) (500-100839-2), 2618-7-B114 (0-6) (500-100839-3), 2618-7-B114 (6-13) (500-100839-4) and 2618-7-B160 (0-6) (500-100839-5). Elevated reporting limits (RLs) are provided.

Method(s) 6020A:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B112 (0-2)**

**Lab Sample ID: 500-100839-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.012	J	0.038	0.0064	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.037	J	0.038	0.0051	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.038		0.038	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.038	0.0082	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.032	J	0.038	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.034	J	0.038	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.074		0.038	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.041		0.038	0.0053	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.075		0.038	0.0076	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.39	J	1.2	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	10		0.59	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	110		0.59	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.87		0.24	0.051	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.55		0.12	0.034	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	21		0.59	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	15		0.30	0.067	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	22	B	0.59	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	24000		12	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	29		0.30	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	7200		5.9	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	9100	B	12	3.8	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	1000		0.59	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	23		0.59	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.38	J	0.59	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Thallium	1.7		0.59	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	32		0.30	0.087	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	61		1.2	0.38	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	2200		30	4.8	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	1900		59	7.8	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	250		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.093		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.50	B	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.046	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.84	F1	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0082		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	40		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.19	F1	0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.048		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.15	F1	0.038	0.038	mg/L	5			6010B	SPLP East
Magnesium	39	F1	2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.2	F1	0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	31	F1	2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

## Client Sample ID: 2618-7-B112 (0-2) (Continued)

## Lab Sample ID: 500-100839-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.75	F1	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.040	B	0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.83		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B113 (0-2)

## Lab Sample ID: 500-100839-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0085	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.034	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.054		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.072		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.074		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.47		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	9.8		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	43000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	84000	B	120	39	mg/Kg	10	☼	6010B	Total/NA
Manganese	950		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.097	J	0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.9		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	3700		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	3100		610	81	mg/Kg	10	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0084		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	95		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	12		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.092	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.068		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.68		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.010		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	52		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

## Client Sample ID: 2618-7-B113 (0-2) (Continued)

## Lab Sample ID: 500-100839-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.078		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.17		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	54		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	47		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.61		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0042		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.023	B	0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B114 (0-6)

## Lab Sample ID: 500-100839-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.30	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.51		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22	B	0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	550		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.72	B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	33		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

## Client Sample ID: 2618-7-B114 (0-6) (Continued)

## Lab Sample ID: 500-100839-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.069		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	2.5		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.025	B	0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.70		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B114 (6-13)

## Lab Sample ID: 500-100839-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.013	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.41		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.84		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3900		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	53		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.019	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0048		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	70		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	77		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.067		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.47		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

## Client Sample ID: 2618-7-B114 (6-13) (Continued)

## Lab Sample ID: 500-100839-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.23		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.025	B	0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.08		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B160 (0-6)

## Lab Sample ID: 500-100839-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.035	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.053		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.042		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.083		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.020	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.042		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.064		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.52		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5300		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	4700	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	810		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.7		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	88		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.65	B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.058		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

## Client Sample ID: 2618-7-B160 (0-6) (Continued)

## Lab Sample ID: 500-100839-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	44		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.048		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.086		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	3.1		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.046	B	0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.90		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B160 (6-13)

## Lab Sample ID: 500-100839-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.010	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.24	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	22		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.2		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	9.0		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	41000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.94		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	74		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.047	J B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.076	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.7		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	5.2		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (6-13) (Continued)**

**Lab Sample ID: 500-100839-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2.5		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.079	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J B	0.019	0.0066	mg/Kg	1	*	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100839-1	2618-7-B112 (0-2)	Solid	09/03/15 12:45	09/04/15 09:30
500-100839-2	2618-7-B113 (0-2)	Solid	09/03/15 12:35	09/04/15 09:30
500-100839-3	2618-7-B114 (0-6)	Solid	09/03/15 11:50	09/04/15 09:30
500-100839-4	2618-7-B114 (6-13)	Solid	09/03/15 12:00	09/04/15 09:30
500-100839-5	2618-7-B160 (0-6)	Solid	09/03/15 09:20	09/04/15 09:30
500-100839-6	2618-7-B160 (6-13)	Solid	09/03/15 09:25	09/04/15 09:30



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B112 (0-2)**

**Lab Sample ID: 500-100839-1**

**Date Collected: 09/03/15 12:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 122	09/04/15 14:10	09/09/15 05:11	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 05:11	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 14:10	09/09/15 05:11	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 14:10	09/09/15 05:11	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Anthracene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0064	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Benzo[a]anthracene</b>	<b>0.037</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B112 (0-2)**

**Lab Sample ID: 500-100839-1**

**Date Collected: 09/03/15 12:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.038</b>		0.038	0.0074	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Benzo[b]fluoranthene</b>	<b>0.059</b>		0.038	0.0082	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Benzo[k]fluoranthene</b>	<b>0.032 J</b>		0.038	0.011	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Chrysene</b>	<b>0.034 J</b>		0.038	0.010	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Fluoranthene</b>	<b>0.074</b>		0.038	0.0071	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B112 (0-2)**

**Lab Sample ID: 500-100839-1**

**Date Collected: 09/03/15 12:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Phenanthrene</b>	<b>0.041</b>		0.038	0.0053	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
<b>Pyrene</b>	<b>0.075</b>		0.038	0.0076	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/08/15 15:52	09/14/15 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	09/08/15 15:52	09/14/15 13:39	1
2-Fluorophenol	82		25 - 110	09/08/15 15:52	09/14/15 13:39	1
Nitrobenzene-d5	76		25 - 115	09/08/15 15:52	09/14/15 13:39	1
Phenol-d5	89		31 - 110	09/08/15 15:52	09/14/15 13:39	1
Terphenyl-d14	127		36 - 134	09/08/15 15:52	09/14/15 13:39	1
2,4,6-Tribromophenol	84		35 - 137	09/08/15 15:52	09/14/15 13:39	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Arsenic</b>	<b>10</b>		0.59	0.27	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Barium</b>	<b>110</b>		0.59	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Beryllium</b>	<b>0.87</b>		0.24	0.051	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Cadmium</b>	<b>0.55</b>		0.12	0.034	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Chromium</b>	<b>21</b>		0.59	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Cobalt</b>	<b>15</b>		0.30	0.067	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Copper</b>	<b>22</b>	<b>B</b>	0.59	0.13	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Iron</b>	<b>24000</b>		12	4.6	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Lead</b>	<b>29</b>		0.30	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Magnesium</b>	<b>7200</b>		5.9	2.4	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Calcium</b>	<b>9100</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Manganese</b>	<b>1000</b>		0.59	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Nickel</b>	<b>23</b>		0.59	0.16	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Thallium</b>	<b>1.7</b>		0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Vanadium</b>	<b>32</b>		0.30	0.087	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Zinc</b>	<b>61</b>		1.2	0.38	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Potassium</b>	<b>2200</b>		30	4.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1
<b>Sodium</b>	<b>1900</b>		59	7.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:09	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 04:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 04:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 04:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B112 (0-2)**

**Lab Sample ID: 500-100839-1**

**Date Collected: 09/03/15 12:45**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>250</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
Iron	<0.20		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 04:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 04:17	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:17	1
<b>Manganese</b>	<b>0.093</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 04:17	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:17	1
<b>Zinc</b>	<b>0.50</b>	<b>B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 04:17	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.046</b>	<b>J</b>	0.050	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Barium</b>	<b>0.84</b>	<b>F1</b>	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Beryllium</b>	<b>0.0082</b>		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Cadmium</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Calcium</b>	<b>40</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Chromium</b>	<b>0.19</b>	<b>F1</b>	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Cobalt</b>	<b>0.048</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Lead</b>	<b>0.15</b>	<b>F1</b>	0.038	0.038	mg/L		09/09/15 19:35	09/10/15 18:38	5
<b>Magnesium</b>	<b>39</b>	<b>F1</b>	2.5	0.50	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Manganese</b>	<b>1.2</b>	<b>F1</b>	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Nickel</b>	<b>0.24</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Potassium</b>	<b>31</b>	<b>F1</b>	2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 14:36	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:36	1
<b>Zinc</b>	<b>0.75</b>	<b>F1</b>	0.10	0.020	mg/L		09/09/15 19:35	09/10/15 14:36	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:36	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:47	1
<b>Thallium</b>	<b>0.0041</b>		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:47	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B112 (0-2)**

**Lab Sample ID: 500-100839-1**

Date Collected: 09/03/15 12:45

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.9

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	B	0.020	0.0069	mg/Kg	☼	09/10/15 15:00	09/11/15 13:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/10/15 14:15	09/10/15 16:38	1
pH	8.83		0.200	0.200	SU			09/10/15 20:12	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B113 (0-2)**

**Lab Sample ID: 500-100839-2**

**Date Collected: 09/03/15 12:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	09/04/15 14:10	09/09/15 05:36	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 05:36	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	09/04/15 14:10	09/09/15 05:36	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 14:10	09/09/15 05:36	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Anthracene</b>	<b>0.0085</b>	<b>J</b>	0.039	0.0066	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Benzo[a]anthracene</b>	<b>0.034</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B113 (0-2)**

**Lab Sample ID: 500-100839-2**

**Date Collected: 09/03/15 12:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.035</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Benzo[b]fluoranthene</b>	<b>0.054</b>		0.039	0.0085	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Benzo[k]fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.039	0.012	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Chrysene</b>	<b>0.036</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Fluoranthene</b>	<b>0.072</b>		0.039	0.0073	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B113 (0-2)**

**Lab Sample ID: 500-100839-2**

**Date Collected: 09/03/15 12:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Phenanthrene</b>	<b>0.031</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
<b>Pyrene</b>	<b>0.074</b>		0.039	0.0079	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/08/15 15:52	09/14/15 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	09/08/15 15:52	09/14/15 14:03	1
2-Fluorophenol	74		25 - 110	09/08/15 15:52	09/14/15 14:03	1
Nitrobenzene-d5	65		25 - 115	09/08/15 15:52	09/14/15 14:03	1
Phenol-d5	75		31 - 110	09/08/15 15:52	09/14/15 14:03	1
Terphenyl-d14	95		36 - 134	09/08/15 15:52	09/14/15 14:03	1
2,4,6-Tribromophenol	67		35 - 137	09/08/15 15:52	09/14/15 14:03	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Arsenic</b>	<b>6.8</b>		0.61	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Barium</b>	<b>39</b>		0.61	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Beryllium</b>	<b>0.71</b>		0.24	0.053	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Cadmium</b>	<b>0.47</b>		0.12	0.035	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Chromium</b>	<b>19</b>		0.61	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Cobalt</b>	<b>11</b>		0.31	0.069	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Copper</b>	<b>18</b>	<b>B</b>	0.61	0.13	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Iron</b>	<b>20000</b>		12	4.7	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Lead</b>	<b>9.8</b>		0.31	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Magnesium</b>	<b>43000</b>		6.1	2.5	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Calcium</b>	<b>84000</b>	<b>B</b>	120	39	mg/Kg	☼	09/09/15 12:00	09/10/15 13:00	10
<b>Manganese</b>	<b>950</b>		0.61	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Nickel</b>	<b>22</b>		0.61	0.17	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
Selenium	<0.61		0.61	0.30	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Silver</b>	<b>0.097</b>	<b>J</b>	0.31	0.071	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Thallium</b>	<b>1.9</b>		0.61	0.30	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Vanadium</b>	<b>22</b>		0.31	0.089	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Zinc</b>	<b>39</b>		1.2	0.39	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Potassium</b>	<b>3700</b>		31	5.0	mg/Kg	☼	09/09/15 12:00	09/09/15 19:15	1
<b>Sodium</b>	<b>3100</b>		610	81	mg/Kg	☼	09/09/15 12:00	09/10/15 13:00	10

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 04:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 04:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 04:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B113 (0-2)**

**Lab Sample ID: 500-100839-2**

Date Collected: 09/03/15 12:35

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 80.4

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>230</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
Iron	<0.20		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Lead</b>	<b>0.0084</b>		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Magnesium</b>	<b>95</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Potassium</b>	<b>12</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 04:24	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:24	1
<b>Zinc</b>	<b>0.092</b>	<b>J B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 04:24	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.068</b>		0.050	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Barium</b>	<b>0.68</b>		0.50	0.050	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Beryllium</b>	<b>0.010</b>		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Cadmium</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Calcium</b>	<b>52</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Cobalt</b>	<b>0.078</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Lead</b>	<b>0.17</b>		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 18:54	5
<b>Magnesium</b>	<b>54</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Nickel</b>	<b>0.29</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Potassium</b>	<b>47</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 14:58	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 14:58	1
<b>Zinc</b>	<b>0.61</b>		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 14:58	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:37	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:51	1
<b>Thallium</b>	<b>0.0042</b>		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:51	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B113 (0-2)**

**Lab Sample ID: 500-100839-2**

**Date Collected: 09/03/15 12:35**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 80.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	B	0.020	0.0070	mg/Kg	☼	09/10/15 15:00	09/11/15 13:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 14:15	09/10/15 16:39	1
pH	8.36		0.200	0.200	SU			09/10/15 20:16	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (0-6)**

**Lab Sample ID: 500-100839-3**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Methylene Chloride	<0.0050		0.0050	0.0037	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/09/15 06:01	1
Dibromofluoromethane	106		75 - 120	09/04/15 14:10	09/09/15 06:01	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 14:10	09/09/15 06:01	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/09/15 06:01	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (0-6)**

**Lab Sample ID: 500-100839-3**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (0-6)**

**Lab Sample ID: 500-100839-3**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/08/15 15:52	09/14/15 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		25 - 119	09/08/15 15:52	09/14/15 14:27	1
2-Fluorophenol	78		25 - 110	09/08/15 15:52	09/14/15 14:27	1
Nitrobenzene-d5	76		25 - 115	09/08/15 15:52	09/14/15 14:27	1
Phenol-d5	64		31 - 110	09/08/15 15:52	09/14/15 14:27	1
Terphenyl-d14	109		36 - 134	09/08/15 15:52	09/14/15 14:27	1
2,4,6-Tribromophenol	77		35 - 137	09/08/15 15:52	09/14/15 14:27	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.30</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Arsenic</b>	<b>6.4</b>		0.57	0.26	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Barium</b>	<b>55</b>		0.57	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Beryllium</b>	<b>0.81</b>		0.23	0.049	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Cadmium</b>	<b>0.51</b>		0.11	0.033	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Chromium</b>	<b>21</b>		0.57	0.098	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Cobalt</b>	<b>12</b>		0.29	0.064	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Copper</b>	<b>22</b>	<b>B</b>	0.57	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Lead</b>	<b>11</b>		0.29	0.14	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Magnesium</b>	<b>40000</b>		5.7	2.3	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Calcium</b>	<b>81000</b>	<b>B</b>	110	37	mg/Kg	☼	09/09/15 12:00	09/10/15 13:11	10
<b>Manganese</b>	<b>550</b>		0.57	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Nickel</b>	<b>26</b>		0.57	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Thallium</b>	<b>1.3</b>		0.57	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Vanadium</b>	<b>23</b>		0.29	0.083	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Zinc</b>	<b>39</b>		1.1	0.36	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Potassium</b>	<b>3800</b>		29	4.7	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1
<b>Sodium</b>	<b>1200</b>		57	7.5	mg/Kg	☼	09/09/15 12:00	09/09/15 19:22	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 04:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 04:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (0-6)**

**Lab Sample ID: 500-100839-3**

**Date Collected: 09/03/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 82.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>310</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:30	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
Iron	<0.20		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 04:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 04:30	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:30	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
<b>Potassium</b>	<b>2.4</b>	<b>J</b>	2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 04:30	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:30	1
<b>Zinc</b>	<b>0.72</b>	<b>B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 04:30	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Calcium</b>	<b>23</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Chromium</b>	<b>0.051</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Copper</b>	<b>0.048</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Iron</b>	<b>33</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:03	1
Lead	<0.038		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 18:58	5
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Nickel</b>	<b>0.039</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:03	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Vanadium</b>	<b>0.069</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:03	1
<b>Zinc</b>	<b>2.5</b>		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:03	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:38	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:52	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (0-6)**

**Lab Sample ID: 500-100839-3**

Date Collected: 09/03/15 11:50

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 82.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025	B	0.017	0.0061	mg/Kg	☼	09/10/15 15:00	09/11/15 13:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:16	1
pH	8.70		0.200	0.200	SU			09/10/15 20:25	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (6-13)**

**Lab Sample ID: 500-100839-4**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/09/15 06:26	1
Dibromofluoromethane	106		75 - 120	09/04/15 14:10	09/09/15 06:26	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 14:10	09/09/15 06:26	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 14:10	09/09/15 06:26	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (6-13)**

**Lab Sample ID: 500-100839-4**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (6-13)**

**Lab Sample ID: 500-100839-4**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/08/15 15:52	09/14/15 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	09/08/15 15:52	09/14/15 14:51	1
2-Fluorophenol	90		25 - 110	09/08/15 15:52	09/14/15 14:51	1
Nitrobenzene-d5	83		25 - 115	09/08/15 15:52	09/14/15 14:51	1
Phenol-d5	89		31 - 110	09/08/15 15:52	09/14/15 14:51	1
Terphenyl-d14	123		36 - 134	09/08/15 15:52	09/14/15 14:51	1
2,4,6-Tribromophenol	79		35 - 137	09/08/15 15:52	09/14/15 14:51	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.29</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Arsenic</b>	<b>4.7</b>		0.59	0.27	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Barium</b>	<b>40</b>		0.59	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Beryllium</b>	<b>0.80</b>		0.24	0.051	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Cadmium</b>	<b>0.41</b>		0.12	0.034	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Chromium</b>	<b>22</b>		0.59	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Cobalt</b>	<b>8.6</b>		0.29	0.066	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Copper</b>	<b>21</b>	<b>B</b>	0.59	0.13	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Lead</b>	<b>9.4</b>		0.29	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Magnesium</b>	<b>36000</b>		5.9	2.4	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Calcium</b>	<b>77000</b>	<b>B</b>	120	38	mg/Kg	☼	09/09/15 12:00	09/10/15 13:15	10
<b>Manganese</b>	<b>360</b>		0.59	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Nickel</b>	<b>24</b>		0.59	0.16	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Thallium</b>	<b>0.84</b>		0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Vanadium</b>	<b>22</b>		0.29	0.086	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Zinc</b>	<b>41</b>		1.2	0.37	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Potassium</b>	<b>3900</b>		29	4.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1
<b>Sodium</b>	<b>840</b>		59	7.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:45	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 04:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 04:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 04:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (6-13)**

**Lab Sample ID: 500-100839-4**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>530</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
Iron	<0.20		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 04:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 04:37	1
<b>Magnesium</b>	<b>53</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:37	1
<b>Manganese</b>	<b>0.85</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
<b>Potassium</b>	<b>3.7</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 04:37	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:37	1
<b>Zinc</b>	<b>0.032</b>	<b>J B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 04:37	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.019</b>	<b>J</b>	0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Beryllium</b>	<b>0.0048</b>		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Cadmium</b>	<b>0.0029</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Calcium</b>	<b>70</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Chromium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Copper</b>	<b>0.094</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Iron</b>	<b>77</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Lead</b>	<b>0.067</b>		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 19:02	5
<b>Magnesium</b>	<b>44</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Manganese</b>	<b>0.47</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Potassium</b>	<b>28</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:07	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:07	1
<b>Zinc</b>	<b>0.23</b>		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:07	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:42	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:53	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B114 (6-13)**

**Lab Sample ID: 500-100839-4**

**Date Collected: 09/03/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:31	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025	B	0.020	0.0069	mg/Kg	☼	09/10/15 15:00	09/11/15 13:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:16	1
pH	8.08		0.200	0.200	SU			09/10/15 20:30	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (0-6)**

**Lab Sample ID: 500-100839-5**

Date Collected: 09/03/15 09:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.025		0.025	0.0048	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Benzene	<0.0062		0.0062	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Bromodichloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Bromoform	<0.0062		0.0062	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Bromomethane	<0.0062		0.0062	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
2-Butanone (MEK)	<0.0062		0.0062	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Carbon disulfide	<0.0062		0.0062	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Carbon tetrachloride	<0.0062		0.0062	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Chlorobenzene	<0.0062		0.0062	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Chloroethane	<0.0062		0.0062	0.0026	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Chloroform	<0.0062		0.0062	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Chloromethane	<0.0062		0.0062	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Dibromochloromethane	<0.0062		0.0062	0.00072	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,1-Dichloroethane	<0.0062		0.0062	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,2-Dichloroethane	<0.0062		0.0062	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,1-Dichloroethene	<0.0062		0.0062	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,2-Dichloropropane	<0.0062		0.0062	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,3-Dichloropropane, Total	<0.0062		0.0062	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Ethylbenzene	<0.0062		0.0062	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
2-Hexanone	<0.0062		0.0062	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Methylene Chloride	<0.0062		0.0062	0.0047	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
4-Methyl-2-pentanone (MIBK)	<0.0062		0.0062	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Methyl tert-butyl ether	<0.0062		0.0062	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Styrene	<0.0062		0.0062	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,1,1,2-Tetrachloroethane	<0.0062		0.0062	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Tetrachloroethene	<0.0062		0.0062	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Toluene	<0.0062		0.0062	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Trichloroethene	<0.0062		0.0062	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Vinyl acetate	<0.0062		0.0062	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Vinyl chloride	<0.0062		0.0062	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1
Xylenes, Total	<0.012		0.012	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/09/15 06:51	1
Dibromofluoromethane	102		75 - 120	09/04/15 14:10	09/09/15 06:51	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 14:10	09/09/15 06:51	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 06:51	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Benzo[a]anthracene</b>	<b>0.035</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (0-6)**

**Lab Sample ID: 500-100839-5**

**Date Collected: 09/03/15 09:20**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.034</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Benzo[b]fluoranthene</b>	<b>0.053</b>		0.039	0.0084	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Benzo[k]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Chrysene</b>	<b>0.042</b>		0.039	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Fluoranthene</b>	<b>0.083</b>		0.039	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.020</b>	<b>J</b>	0.039	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (0-6)**

**Lab Sample ID: 500-100839-5**

Date Collected: 09/03/15 09:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Phenanthrene</b>	<b>0.042</b>		0.039	0.0054	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
<b>Pyrene</b>	<b>0.064</b>		0.039	0.0077	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	09/09/15 16:30	09/14/15 08:58	1
2-Fluorophenol	89		25 - 110	09/09/15 16:30	09/14/15 08:58	1
Nitrobenzene-d5	78		25 - 115	09/09/15 16:30	09/14/15 08:58	1
Phenol-d5	91		31 - 110	09/09/15 16:30	09/14/15 08:58	1
Terphenyl-d14	92		36 - 134	09/09/15 16:30	09/14/15 08:58	1
2,4,6-Tribromophenol	92		35 - 137	09/09/15 16:30	09/14/15 08:58	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.50</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Arsenic</b>	<b>8.1</b>		0.59	0.27	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Barium</b>	<b>96</b>		0.59	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Beryllium</b>	<b>1.0</b>		0.24	0.051	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Cadmium</b>	<b>0.52</b>		0.12	0.034	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Chromium</b>	<b>25</b>		0.59	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Cobalt</b>	<b>15</b>		0.29	0.066	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Copper</b>	<b>21</b>	<b>B</b>	0.59	0.13	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Iron</b>	<b>24000</b>		12	4.5	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Lead</b>	<b>25</b>		0.29	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Magnesium</b>	<b>5300</b>		5.9	2.4	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Calcium</b>	<b>4700</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Manganese</b>	<b>810</b>		0.59	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Nickel</b>	<b>27</b>		0.59	0.16	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Selenium</b>	<b>0.51</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Thallium</b>	<b>1.7</b>		0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Vanadium</b>	<b>32</b>		0.29	0.086	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Zinc</b>	<b>60</b>		1.2	0.37	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Potassium</b>	<b>2600</b>		29	4.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1
<b>Sodium</b>	<b>110</b>		59	7.8	mg/Kg	☼	09/09/15 12:00	09/09/15 19:52	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 04:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 04:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 04:44	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (0-6)**

**Lab Sample ID: 500-100839-5**

Date Collected: 09/03/15 09:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>88</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:44	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
Iron	<0.20		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 04:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 04:44	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:44	1
<b>Manganese</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 04:44	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:44	1
<b>Zinc</b>	<b>0.65</b>	<b>B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 04:44	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Calcium</b>	<b>13</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Chromium</b>	<b>0.057</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Copper</b>	<b>0.058</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Iron</b>	<b>44</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Lead</b>	<b>0.048</b>		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 19:06	5
<b>Magnesium</b>	<b>13</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Nickel</b>	<b>0.052</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Potassium</b>	<b>11</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:30	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Vanadium</b>	<b>0.086</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:30	1
<b>Zinc</b>	<b>3.1</b>		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:30	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:43	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:56	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (0-6)**

**Lab Sample ID: 500-100839-5**

Date Collected: 09/03/15 09:20

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 83.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:33	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046	B	0.018	0.0064	mg/Kg	☼	09/10/15 15:00	09/11/15 13:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:16	1
pH	7.90		0.200	0.200	SU			09/10/15 20:34	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (6-13)**

**Lab Sample ID: 500-100839-6**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	09/04/15 14:10	09/09/15 07:16	1
Dibromofluoromethane	104		75 - 120	09/04/15 14:10	09/09/15 07:16	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	09/04/15 14:10	09/09/15 07:16	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 07:16	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (6-13)**

**Lab Sample ID: 500-100839-6**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
<b>Chrysene</b>	<b>0.011</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (6-13)**

**Lab Sample ID: 500-100839-6**

Date Collected: 09/03/15 09:25

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.7

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
<b>Pyrene</b>	<b>0.010</b>	<b>J</b>	0.037	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 09:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/09/15 16:30	09/14/15 09:24	1
2-Fluorophenol	85		25 - 110	09/09/15 16:30	09/14/15 09:24	1
Nitrobenzene-d5	71		25 - 115	09/09/15 16:30	09/14/15 09:24	1
Phenol-d5	84		31 - 110	09/09/15 16:30	09/14/15 09:24	1
Terphenyl-d14	84		36 - 134	09/09/15 16:30	09/14/15 09:24	1
2,4,6-Tribromophenol	77		35 - 137	09/09/15 16:30	09/14/15 09:24	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.24</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Arsenic</b>	<b>5.0</b>		0.56	0.26	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Barium</b>	<b>22</b>		0.56	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Beryllium</b>	<b>0.66</b>		0.22	0.049	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Cadmium</b>	<b>0.37</b>		0.11	0.033	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Chromium</b>	<b>18</b>		0.56	0.097	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Cobalt</b>	<b>5.2</b>		0.28	0.063	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Copper</b>	<b>20</b>	<b>B</b>	0.56	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Iron</b>	<b>16000</b>		11	4.3	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Lead</b>	<b>9.0</b>		0.28	0.14	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Magnesium</b>	<b>41000</b>		5.6	2.3	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Calcium</b>	<b>80000</b>	<b>B</b>	110	36	mg/Kg	☼	09/09/15 12:00	09/10/15 13:19	10
<b>Manganese</b>	<b>330</b>		0.56	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Nickel</b>	<b>17</b>		0.56	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Thallium</b>	<b>0.94</b>		0.56	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Vanadium</b>	<b>19</b>		0.28	0.082	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Zinc</b>	<b>34</b>		1.1	0.36	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Potassium</b>	<b>3800</b>		28	4.6	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1
<b>Sodium</b>	<b>170</b>		56	7.4	mg/Kg	☼	09/09/15 12:00	09/09/15 19:58	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 04:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 04:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 04:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (6-13)**

**Lab Sample ID: 500-100839-6**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>480</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:51	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
Iron	<0.20		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 04:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 04:51	1
<b>Magnesium</b>	<b>74</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:51	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
<b>Potassium</b>	<b>5.9</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 04:51	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:51	1
<b>Zinc</b>	<b>0.047</b>	<b>J B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 04:51	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Barium</b>	<b>0.076</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Calcium</b>	<b>13</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Iron</b>	<b>1.7</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Magnesium</b>	<b>5.2</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Manganese</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Potassium</b>	<b>2.5</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:34	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:34	1
<b>Zinc</b>	<b>0.079</b>	<b>J</b>	0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:34	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:44	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:57	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

**Client Sample ID: 2618-7-B160 (6-13)**

**Lab Sample ID: 500-100839-6**

**Date Collected: 09/03/15 09:25**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:35	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J B	0.019	0.0066	mg/Kg	☼	09/10/15 15:00	09/11/15 13:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/10/15 16:15	09/10/15 18:17	1
pH	8.10		0.200	0.200	SU			09/10/15 20:38	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# TestAmerica

THE LEADER IN ENVIRONMENT/

2417 Bond Street, University Park, IL 1  
Phone: 708.534.5200 Fax: 708.5



500-100839 COC

Report To (optional)  
Contact: Matt Weiss  
Company: Terracon  
Address: 135 Ambassador Dr  
Address: Naperville, IL 60540  
Phone: 630-717-4263  
Fax: 630-357-9489  
E-Mail: matt.weiss@terracon.com

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100839

Chain of Custody Number: \_\_\_\_\_

Page 23 of 40  
Temperature °C of Cooler: 3.0, 3.0, 4.0, 3.3, 3.1, 2.7, 2.5, 2.1

Client		Client Project #		Preservative		Parameter		Total 24 Inorganics		Total 24 Inorganics		SPLP 24 Inorganics		PH		Preservative Key	
		<u>1157108</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix										Comments	
Project Location/State		Lab Project #															
Sampler		Lab PM															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix											
<u>1</u>		<u>2618-7-B112(0-2)</u>	<u>9/3/15</u>	<u>12:45</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>2</u>		<u>2618-7-B113(0-2)</u>	<u>9/3/15</u>	<u>12:35</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>3</u>		<u>2618-7-B114(0-6)</u>	<u>9/3/15</u>	<u>11:50</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>4</u>		<u>2618-7-B114(6-13)</u>	<u>9/3/15</u>	<u>12:00</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>9/4/15</u>	Time <u>810</u>	Received By <u>P. N. Vach</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>0810</u>
Relinquished By <u>P. N. Vach</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>0930</u>	Received By <u>Shendee</u>	Company <u>TA-CHE</u>	Date <u>9/4/15</u>	Time <u>0930</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: Meet IL TACO requirements. Please do NOT run aluminum for total/TCLP/SPLP analysis. Thank you.

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) MATT WEISS  
 Contact: MATT WEISS  
 Company: TERRACON  
 Address: 135 AMBASSADOR DR.  
 Address: NAPERVILLE, IL 60540  
 Phone: 630-717-4263  
 Fax: 630-357-4489  
 E-Mail: MATT.WEISS@TERRACON.COM

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100839  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
<u>TERRACON</u>		<u>115708</u>										
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		
<u>HOFFMAN ESTATES, IL</u>												
Sampler		Lab PM		Date		Time		# of Containers		Matrix		
<u>Tony BollaSina</u>												
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL 24 INORGANICS	ICLP 24 INORGANICS	SPLP INORGANICS	PIT
<u>5</u>		<u>2168-7-B160(0-6)</u>	<u>9/3/15</u>	<u>920</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>6</u>		<u>2168-7-B160(6-13)</u>	<u>9/3/15</u>	<u>925</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>TERRACON</u>	Date: <u>9/4/15</u>	Time: <u>810</u>	Received By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>0810</u>
Relinquished By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>9/4/15</u>	Time: <u>0930</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CHE</u>	Date: <u>9/4/15</u>	Time: <u>0930</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: MEET IL TACO REQUIREMENTS  
DO NOT RUN ALUMINUM FOR  
TCLD

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-100874-7

Client Project/Site: IDOT - Hoffman Estates - WO 08

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

9/21/2015 2:14:36 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Job ID: 500-100874-7**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100874-7

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### Receipt Exceptions

Samples times on COC for lab samples 32 & 33 are incorrect due to sample B141 not being listed on the COC. Logged times per containers.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 303662 and 303869 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: 2618-7-B137 (0-2) (500-100874-21), 2618-7-B135 (0-2) (500-100874-23), 2618-7-B140 (0-2) (500-100874-32) and 2618-7-B140 DUP (0-2) (500-100874-33). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B137 (0-2)**

**Lab Sample ID: 500-100874-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.055		0.037	0.0063	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]anthracene	0.25		0.037	0.0050	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]pyrene	0.24		0.037	0.0073	mg/Kg	1	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.42		0.037	0.0081	mg/Kg	1	*	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.037	0.012	mg/Kg	1	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.037	0.011	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.32		0.037	0.010	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.37		0.037	0.0069	mg/Kg	1	*	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.037	0.0097	mg/Kg	1	*	*	8270D	Total/NA
2-Methylnaphthalene	0.025	J	0.037	0.0069	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.28		0.037	0.0052	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.73		0.037	0.0074	mg/Kg	1	*	*	8270D	Total/NA
Antimony	0.41	J	1.2	0.24	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	9.8		0.58	0.27	mg/Kg	1	*	*	6010B	Total/NA
Barium	56		0.58	0.11	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.66		0.23	0.050	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.42		0.12	0.033	mg/Kg	1	*	*	6010B	Total/NA
Chromium	14		0.58	0.099	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	*	*	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	*	*	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	*	*	6010B	Total/NA
Lead	86		0.29	0.14	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	25000		5.8	2.3	mg/Kg	1	*	*	6010B	Total/NA
Calcium	54000		120	37	mg/Kg	10	*	*	6010B	Total/NA
Manganese	430		0.58	0.11	mg/Kg	1	*	*	6010B	Total/NA
Nickel	26		0.58	0.16	mg/Kg	1	*	*	6010B	Total/NA
Selenium	0.70		0.58	0.29	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	*	*	6010B	Total/NA
Zinc	81		1.2	0.37	mg/Kg	1	*	*	6010B	Total/NA
Potassium	1800		29	4.7	mg/Kg	1	*	*	6010B	Total/NA
Sodium	1800		58	7.6	mg/Kg	1	*	*	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	280		2.5	0.50	mg/L	1			6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	4.1		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.081	J	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.029	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.64		0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	51		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.055		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.034		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.096		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	57		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.55		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.080		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B137 (0-2) (Continued)

## Lab Sample ID: 500-100874-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.096		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.37		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.035		0.017	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.61		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B136 (0-2)

## Lab Sample ID: 500-100874-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.34	J	1.2	0.25	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.2		0.59	0.27	mg/Kg	1	✳	6010B	Total/NA
Barium	48		0.59	0.11	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.83		0.24	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.19		0.12	0.034	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.59	0.10	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.30	0.067	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.30	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000		5.9	2.4	mg/Kg	1	✳	6010B	Total/NA
Calcium	70000		120	38	mg/Kg	10	✳	6010B	Total/NA
Manganese	330		0.59	0.12	mg/Kg	1	✳	6010B	Total/NA
Nickel	33		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.29	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	✳	6010B	Total/NA
Zinc	62		1.2	0.38	mg/Kg	1	✳	6010B	Total/NA
Potassium	2800		30	4.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	930		59	7.8	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	680		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	220		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.89	J	2.5	0.50	mg/L	1		6010B	TCLP
Arsenic	0.022	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.54		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.062		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	56		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.093		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.66		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.071		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.088		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.27		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.0065	mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B136 (0-2) (Continued)

## Lab Sample ID: 500-100874-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.91		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B135 (0-2)

## Lab Sample ID: 500-100874-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.50	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.11	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.53	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000		110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400		53	6.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	61		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	8.7		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.073		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	9.3		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.66		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.4		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.034		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.64		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B134 (0-2)

## Lab Sample ID: 500-100874-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.39	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.5		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B134 (0-2) (Continued)**

**Lab Sample ID: 500-100874-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	54		0.55	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.70		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.20		0.11	0.032	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.55	0.094	mg/Kg	1		☼	6010B	Total/NA
Cobalt	12		0.27	0.062	mg/Kg	1		☼	6010B	Total/NA
Copper	22		0.55	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	20000		11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	18		0.27	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	28000		5.5	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	63000		110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	360		0.55	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	29		0.55	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.45	J	0.55	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.27	0.080	mg/Kg	1		☼	6010B	Total/NA
Zinc	66		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	1800		27	4.5	mg/Kg	1		☼	6010B	Total/NA
Sodium	1500		55	7.2	mg/Kg	1		☼	6010B	Total/NA
Arsenic	0.013	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	540		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.54		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	200		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.014	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.67		0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	39		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.014	J	0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.017	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.092		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	20		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.028		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	4.7		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.045		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.00049		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.056		0.017	0.0060	mg/Kg	1		☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B133 (0-2)**

**Lab Sample ID: 500-100874-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.036	0.0049	mg/Kg	1		☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B133 (0-2) (Continued)**

**Lab Sample ID: 500-100874-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.016	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.030	J	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.025	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.010	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.9		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	68		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8300		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.70		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	360		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	84		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	3.8		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.22		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.00024		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.033		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B147 (0-2)**

**Lab Sample ID: 500-100874-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B147 (0-2) (Continued)**

**Lab Sample ID: 500-100874-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.024	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.026	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.025	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.041	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.75		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0051		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.091		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	97		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.36		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.38		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.031		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B147 (0-2) (Continued)

## Lab Sample ID: 500-100874-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B146 (0-2)

## Lab Sample ID: 500-100874-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.042		0.022	0.0042	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0073		0.0055	0.0019	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0087	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0091	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	180		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.046	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.033	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.69		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0044		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	77		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B146 (0-2) (Continued)

## Lab Sample ID: 500-100874-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.097		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.47		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0023		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00030		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.083		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.54		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B145 (0-2)

## Lab Sample ID: 500-100874-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.022	0.0042	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.012	J	0.041	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.052		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.057		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.089		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.072		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.084		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.066		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.099		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9000		6.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	130		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	52		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13		0.10	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B145 (0-2) (Continued)

## Lab Sample ID: 500-100874-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	7.9		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	3.6		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.088	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.040		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B144 (0-2)

## Lab Sample ID: 500-100874-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.022	0.0043	mg/Kg	1	☼	8260B	Total/NA
Fluoranthene	0.0092	J	0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0060	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0088	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	660		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.61	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		61	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	210		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B144 (0-2) (Continued)

## Lab Sample ID: 500-100874-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.8		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.024		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	5.1		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.20		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.057		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	7.52		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B143 (0-2)

## Lab Sample ID: 500-100874-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.040		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.029	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.032	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.62	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	620		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	86		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B143 (0-2) (Continued)

## Lab Sample ID: 500-100874-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.50		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	24		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.037		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	7.2		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.21		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.73		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B142 (0-2)

## Lab Sample ID: 500-100874-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.2		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.83		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5800		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	3900		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	530		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	43		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	82		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	250		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.83	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.71		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.027		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B142 (0-2) (Continued)

## Lab Sample ID: 500-100874-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	5.7		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.074		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	9.7		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.75		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.15		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.19		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B140 (0-2)

## Lab Sample ID: 500-100874-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	J	0.022	0.0042	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.011	J	0.035	0.0060	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.068		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.035	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.035		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.058		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.098		0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.036		0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0071	J	0.035	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.077		0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.035	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.24	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000		100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	76		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B140 (0-2) (Continued)

## Lab Sample ID: 500-100874-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.55		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	14		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.39		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.22		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.048		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.46		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B140 DUP (0-2)

## Lab Sample ID: 500-100874-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.021	0.0041	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.070		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.073		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.056		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.059		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.080		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.091		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 DUP (0-2) (Continued)**

**Lab Sample ID: 500-100874-33**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	87		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	5.5		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.052		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.8		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.5		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.046		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.22		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B139 (0-2)**

**Lab Sample ID: 500-100874-34**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.87		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	1000		25	5.0	mg/L	10		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.064	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.035	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.55		0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Client Sample ID: 2618-7-B139 (0-2) (Continued)

## Lab Sample ID: 500-100874-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0064		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	120		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.058		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	63		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.32		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.020	0.0068	mg/Kg	1	✳	7471B	Total/NA
pH	8.17		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B138 (0-2)

## Lab Sample ID: 500-100874-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.11		0.025	0.0049	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.020		0.0063	0.0023	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.41	J	1.2	0.25	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.4		0.61	0.28	mg/Kg	1	✳	6010B	Total/NA
Barium	99		0.61	0.11	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.76		0.25	0.053	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.31		0.12	0.036	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.61	0.11	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.31	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.61	0.13	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	12	4.7	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.31	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	5100		6.1	2.5	mg/Kg	1	✳	6010B	Total/NA
Calcium	5700		12	3.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	630		0.61	0.12	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.62		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	29		0.31	0.090	mg/Kg	1	✳	6010B	Total/NA
Zinc	78		1.2	0.39	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100		31	5.0	mg/Kg	1	✳	6010B	Total/NA
Sodium	1700		61	8.1	mg/Kg	1	✳	6010B	Total/NA
Arsenic	0.012	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	120		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	16		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B138 (0-2) (Continued)**

**Lab Sample ID: 500-100874-35**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	14		2.5	0.50	mg/L	1			6010B	SPLP East
Copper	0.033		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	5.8		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.034		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	4.1		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.010	J	0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	2.6		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.020	J	0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.14		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.041		0.020	0.0069	mg/Kg	1		☆	7471B	Total/NA
pH	7.54		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100874-21	2618-7-B137 (0-2)	Solid	09/04/15 14:30	09/04/15 21:00
500-100874-22	2618-7-B136 (0-2)	Solid	09/04/15 14:35	09/04/15 21:00
500-100874-23	2618-7-B135 (0-2)	Solid	09/04/15 14:45	09/04/15 21:00
500-100874-24	2618-7-B134 (0-2)	Solid	09/04/15 14:50	09/04/15 21:00
500-100874-25	2618-7-B133 (0-2)	Solid	09/04/15 15:00	09/04/15 21:00
500-100874-26	2618-7-B147 (0-2)	Solid	09/04/15 13:00	09/04/15 21:00
500-100874-27	2618-7-B146 (0-2)	Solid	09/04/15 13:10	09/04/15 21:00
500-100874-28	2618-7-B145 (0-2)	Solid	09/04/15 13:15	09/04/15 21:00
500-100874-29	2618-7-B144 (0-2)	Solid	09/04/15 13:20	09/04/15 21:00
500-100874-30	2618-7-B143 (0-2)	Solid	09/04/15 13:25	09/04/15 21:00
500-100874-31	2618-7-B142 (0-2)	Solid	09/04/15 13:40	09/04/15 21:00
500-100874-32	2618-7-B140 (0-2)	Solid	09/04/15 13:50	09/04/15 21:00
500-100874-33	2618-7-B140 DUP (0-2)	Solid	09/04/15 13:55	09/04/15 21:00
500-100874-34	2618-7-B139 (0-2)	Solid	09/04/15 14:00	09/04/15 21:00
500-100874-35	2618-7-B138 (0-2)	Solid	09/04/15 14:20	09/04/15 21:00

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B137 (0-2)**

**Lab Sample ID: 500-100874-21**

**Date Collected: 09/04/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Vinyl chloride	<0.0041		0.0041	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/04/15 22:30	09/11/15 14:09	1
Dibromofluoromethane	97		75 - 120	09/04/15 22:30	09/11/15 14:09	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/04/15 22:30	09/11/15 14:09	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/11/15 14:09	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Anthracene</b>	<b>0.055</b>		0.037	0.0063	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Benzo[a]anthracene</b>	<b>0.25</b>		0.037	0.0050	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B137 (0-2)**

**Lab Sample ID: 500-100874-21**

**Date Collected: 09/04/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.24</b>		0.037	0.0073	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Benzo[b]fluoranthene</b>	<b>0.42</b>		0.037	0.0081	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Benzo[g,h,i]perylene</b>	<b>0.11</b>		0.037	0.012	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Benzo[k]fluoranthene</b>	<b>0.17</b>		0.037	0.011	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Chrysene</b>	<b>0.32</b>		0.037	0.010	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,4-Dinitrophenol	<0.76 *		0.76	0.66	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Fluoranthene</b>	<b>0.37</b>		0.037	0.0069	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.12</b>		0.037	0.0097	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>2-Methylnaphthalene</b>	<b>0.025 J</b>		0.037	0.0069	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B137 (0-2)**

**Lab Sample ID: 500-100874-21**

Date Collected: 09/04/15 14:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.9

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Phenanthrene</b>	<b>0.28</b>		0.037	0.0052	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
<b>Pyrene</b>	<b>0.73</b>		0.037	0.0074	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:46	09/15/15 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		25 - 119				09/09/15 16:46	09/15/15 22:32	1
2-Fluorophenol	99		25 - 110				09/09/15 16:46	09/15/15 22:32	1
Nitrobenzene-d5	84		25 - 115				09/09/15 16:46	09/15/15 22:32	1
Phenol-d5	93		31 - 110				09/09/15 16:46	09/15/15 22:32	1
Terphenyl-d14	206	X	36 - 134				09/09/15 16:46	09/15/15 22:32	1
2,4,6-Tribromophenol	90		35 - 137				09/09/15 16:46	09/15/15 22:32	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.41</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Arsenic</b>	<b>9.8</b>		0.58	0.27	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Barium</b>	<b>56</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Beryllium</b>	<b>0.66</b>		0.23	0.050	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Cadmium</b>	<b>0.42</b>		0.12	0.033	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Chromium</b>	<b>14</b>		0.58	0.099	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Cobalt</b>	<b>11</b>		0.29	0.065	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Copper</b>	<b>22</b>		0.58	0.13	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Iron</b>	<b>20000</b>		12	4.5	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Lead</b>	<b>86</b>		0.29	0.14	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Magnesium</b>	<b>25000</b>		5.8	2.3	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Calcium</b>	<b>54000</b>		120	37	mg/Kg	☼	09/11/15 13:30	09/14/15 18:43	10
<b>Manganese</b>	<b>430</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Nickel</b>	<b>26</b>		0.58	0.16	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Selenium</b>	<b>0.70</b>		0.58	0.29	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Vanadium</b>	<b>19</b>		0.29	0.084	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Zinc</b>	<b>81</b>		1.2	0.37	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Potassium</b>	<b>1800</b>		29	4.7	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1
<b>Sodium</b>	<b>1800</b>		58	7.6	mg/Kg	☼	09/11/15 13:30	09/11/15 23:55	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 19:04	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 19:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B137 (0-2)**

**Lab Sample ID: 500-100874-21**

Date Collected: 09/04/15 14:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.9

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 19:04	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 19:04	1
<b>Magnesium</b>	<b>34</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:04	1
<b>Manganese</b>	<b>4.1</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
<b>Potassium</b>	<b>2.3 J</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 19:04	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:04	1
<b>Zinc</b>	<b>0.081 J</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 19:04	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.029 J</b>		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Barium</b>	<b>0.64</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 06:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 06:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Calcium</b>	<b>51</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Chromium</b>	<b>0.055</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Cobalt</b>	<b>0.034</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Copper</b>	<b>0.096</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Iron</b>	<b>57</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Lead</b>	<b>0.55</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Nickel</b>	<b>0.080</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 06:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 06:49	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Vanadium</b>	<b>0.096</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:49	1
<b>Zinc</b>	<b>0.37</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 06:49	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:33	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:11	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B137 (0-2)**

**Lab Sample ID: 500-100874-21**

**Date Collected: 09/04/15 14:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 14:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/14/15 14:50	09/14/15 17:49	1
pH	8.61		0.200	0.200	SU			09/11/15 14:51	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B136 (0-2)**

**Lab Sample ID: 500-100874-22**

**Date Collected: 09/04/15 14:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Vinyl acetate	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 22:30	09/11/15 14:33	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 14:33	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/04/15 22:30	09/11/15 14:33	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/11/15 14:33	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B136 (0-2)**

**Lab Sample ID: 500-100874-22**

**Date Collected: 09/04/15 14:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B136 (0-2)**

**Lab Sample ID: 500-100874-22**

Date Collected: 09/04/15 14:35

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.0

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	09/09/15 16:46	09/14/15 16:28	1
2-Fluorophenol	79		25 - 110	09/09/15 16:46	09/14/15 16:28	1
Nitrobenzene-d5	71		25 - 115	09/09/15 16:46	09/14/15 16:28	1
Phenol-d5	82		31 - 110	09/09/15 16:46	09/14/15 16:28	1
Terphenyl-d14	84		36 - 134	09/09/15 16:46	09/14/15 16:28	1
2,4,6-Tribromophenol	81		35 - 137	09/09/15 16:46	09/14/15 16:28	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.34</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Arsenic</b>	<b>6.2</b>		0.59	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Barium</b>	<b>48</b>		0.59	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Beryllium</b>	<b>0.83</b>		0.24	0.051	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Cadmium</b>	<b>0.19</b>		0.12	0.034	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Chromium</b>	<b>19</b>		0.59	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Cobalt</b>	<b>14</b>		0.30	0.067	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Copper</b>	<b>23</b>		0.59	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Iron</b>	<b>20000</b>		12	4.6	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Lead</b>	<b>12</b>		0.30	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Magnesium</b>	<b>30000</b>		5.9	2.4	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Calcium</b>	<b>70000</b>		120	38	mg/Kg	☼	09/11/15 13:30	09/14/15 18:54	10
<b>Manganese</b>	<b>330</b>		0.59	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Nickel</b>	<b>33</b>		0.59	0.16	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Selenium</b>	<b>0.29</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Vanadium</b>	<b>20</b>		0.30	0.087	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Zinc</b>	<b>62</b>		1.2	0.38	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Potassium</b>	<b>2800</b>		30	4.8	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1
<b>Sodium</b>	<b>930</b>		59	7.8	mg/Kg	☼	09/11/15 13:30	09/12/15 00:00	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:52	09/17/15 22:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:52	09/17/15 22:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:52	09/17/15 22:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B136 (0-2)**

**Lab Sample ID: 500-100874-22**

Date Collected: 09/04/15 14:35

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.0

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>680</b>		25	5.0	mg/L		09/17/15 13:52	09/18/15 12:28	10
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
<b>Cobalt</b>	<b>0.028</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:52	09/17/15 22:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:52	09/17/15 22:39	1
<b>Magnesium</b>	<b>220</b>		2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:39	1
<b>Manganese</b>	<b>5.5</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
<b>Nickel</b>	<b>0.017</b>	J	0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
<b>Potassium</b>	<b>0.89</b>	J	2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:52	09/17/15 22:39	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:39	1
Zinc	<0.10		0.10	0.020	mg/L		09/17/15 13:52	09/17/15 22:39	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.022</b>	J	0.050	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 06:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 06:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Calcium</b>	<b>49</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Chromium</b>	<b>0.062</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Cobalt</b>	<b>0.023</b>	J	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Copper</b>	<b>0.076</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Iron</b>	<b>56</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Lead</b>	<b>0.093</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Magnesium</b>	<b>28</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Nickel</b>	<b>0.071</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Potassium</b>	<b>15</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 06:56	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 06:56	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Vanadium</b>	<b>0.088</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 06:56	1
<b>Zinc</b>	<b>0.27</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 06:56	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:52	09/18/15 10:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:52	09/18/15 10:49	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:12	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 13:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B136 (0-2)**

**Lab Sample ID: 500-100874-22**

**Date Collected: 09/04/15 14:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.0**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 09:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0065	mg/Kg	☼	09/11/15 17:00	09/14/15 14:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/14/15 14:50	09/14/15 17:49	1
pH	7.91		0.200	0.200	SU			09/11/15 14:57	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B135 (0-2)**

**Lab Sample ID: 500-100874-23**

**Date Collected: 09/04/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 91.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/11/15 14:57	1
Dibromofluoromethane	97		75 - 120	09/04/15 22:30	09/11/15 14:57	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/04/15 22:30	09/11/15 14:57	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/11/15 14:57	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B135 (0-2)**

**Lab Sample ID: 500-100874-23**

**Date Collected: 09/04/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 91.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Carbazole	<0.17		0.17	0.086	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Chrysene	<0.034		0.034	0.0094	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,4-Dinitrophenol	<0.70	*	0.70	0.61	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0089	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B135 (0-2)**

**Lab Sample ID: 500-100874-23**

**Date Collected: 09/04/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 91.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Pentachlorophenol	<0.70		0.70	0.55	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Phenol	<0.17		0.17	0.077	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
Pyrene	<0.034		0.034	0.0069	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	09/09/15 16:46	09/15/15 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/09/15 16:46	09/15/15 22:58	1
2-Fluorophenol	86		25 - 110	09/09/15 16:46	09/15/15 22:58	1
Nitrobenzene-d5	75		25 - 115	09/09/15 16:46	09/15/15 22:58	1
Phenol-d5	88		31 - 110	09/09/15 16:46	09/15/15 22:58	1
Terphenyl-d14	157	X	36 - 134	09/09/15 16:46	09/15/15 22:58	1
2,4,6-Tribromophenol	78		35 - 137	09/09/15 16:46	09/15/15 22:58	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.50</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Arsenic</b>	<b>10</b>		0.53	0.24	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Barium</b>	<b>47</b>		0.53	0.096	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Beryllium</b>	<b>0.63</b>		0.21	0.046	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Cadmium</b>	<b>0.28</b>		0.11	0.030	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Chromium</b>	<b>13</b>		0.53	0.090	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Cobalt</b>	<b>11</b>		0.26	0.059	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Copper</b>	<b>22</b>		0.53	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Iron</b>	<b>22000</b>		11	4.1	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Lead</b>	<b>33</b>		0.26	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Magnesium</b>	<b>28000</b>		5.3	2.1	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Calcium</b>	<b>64000</b>		110	34	mg/Kg	☼	09/11/15 13:30	09/14/15 18:58	10
<b>Manganese</b>	<b>380</b>		0.53	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Nickel</b>	<b>27</b>		0.53	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Selenium</b>	<b>0.32</b>	<b>J</b>	0.53	0.26	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Vanadium</b>	<b>16</b>		0.26	0.077	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Zinc</b>	<b>74</b>		1.1	0.33	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Potassium</b>	<b>1700</b>		26	4.3	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1
<b>Sodium</b>	<b>2400</b>		53	6.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:05	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 19:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B135 (0-2)**

**Lab Sample ID: 500-100874-23**

**Date Collected: 09/04/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 91.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 19:24	1
<b>Magnesium</b>	<b>61</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:24	1
<b>Manganese</b>	<b>3.6</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
<b>Potassium</b>	<b>1.8 J</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 19:24	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:24	1
<b>Zinc</b>	<b>0.045 J</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 19:24	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Barium</b>	<b>0.37 J</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 07:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 07:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Calcium</b>	<b>31</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:03	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Copper</b>	<b>0.044</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Iron</b>	<b>8.7</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Lead</b>	<b>0.073</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Magnesium</b>	<b>9.3</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Nickel</b>	<b>0.016 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Potassium</b>	<b>3.4</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 07:03	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Vanadium</b>	<b>0.015 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:03	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 07:03	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:37	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:13	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B135 (0-2)**

**Lab Sample ID: 500-100874-23**

Date Collected: 09/04/15 14:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 91.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 14:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	09/14/15 14:50	09/14/15 17:50	1
pH	8.64		0.200	0.200	SU			09/11/15 15:09	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B134 (0-2)**

**Lab Sample ID: 500-100874-24**

**Date Collected: 09/04/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/04/15 22:30	09/11/15 15:21	1
Dibromofluoromethane	100		75 - 120	09/04/15 22:30	09/11/15 15:21	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/04/15 22:30	09/11/15 15:21	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/11/15 15:21	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B134 (0-2)**

**Lab Sample ID: 500-100874-24**

**Date Collected: 09/04/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B134 (0-2)**

**Lab Sample ID: 500-100874-24**

**Date Collected: 09/04/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	09/09/15 16:46	09/14/15 16:57	1
2-Fluorophenol	64		25 - 110	09/09/15 16:46	09/14/15 16:57	1
Nitrobenzene-d5	65		25 - 115	09/09/15 16:46	09/14/15 16:57	1
Phenol-d5	67		31 - 110	09/09/15 16:46	09/14/15 16:57	1
Terphenyl-d14	83		36 - 134	09/09/15 16:46	09/14/15 16:57	1
2,4,6-Tribromophenol	80		35 - 137	09/09/15 16:46	09/14/15 16:57	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Arsenic</b>	<b>8.5</b>		0.55	0.25	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Barium</b>	<b>54</b>		0.55	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Beryllium</b>	<b>0.70</b>		0.22	0.047	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Cadmium</b>	<b>0.20</b>		0.11	0.032	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Chromium</b>	<b>15</b>		0.55	0.094	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Cobalt</b>	<b>12</b>		0.27	0.062	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Copper</b>	<b>22</b>		0.55	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Iron</b>	<b>20000</b>		11	4.2	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Lead</b>	<b>18</b>		0.27	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Magnesium</b>	<b>28000</b>		5.5	2.2	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Calcium</b>	<b>63000</b>		110	35	mg/Kg	☼	09/11/15 13:30	09/14/15 19:02	10
<b>Manganese</b>	<b>360</b>		0.55	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Nickel</b>	<b>29</b>		0.55	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Selenium</b>	<b>0.45</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Vanadium</b>	<b>19</b>		0.27	0.080	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Zinc</b>	<b>66</b>		1.1	0.35	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Potassium</b>	<b>1800</b>		27	4.5	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1
<b>Sodium</b>	<b>1500</b>		55	7.2	mg/Kg	☼	09/11/15 13:30	09/12/15 00:10	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.013</b>	<b>J</b>	0.050	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:52	09/17/15 22:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		09/17/15 13:52	09/17/15 22:44	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B134 (0-2)**

**Lab Sample ID: 500-100874-24**

Date Collected: 09/04/15 14:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.7

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>540</b>		2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:44	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Iron</b>	<b>0.54</b>		0.20	0.20	mg/L		09/17/15 13:52	09/17/15 22:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Magnesium</b>	<b>200</b>		2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Manganese</b>	<b>11</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Nickel</b>	<b>0.029</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Potassium</b>	<b>1.8 J</b>		2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:52	09/17/15 22:44	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:44	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/17/15 13:52	09/17/15 22:44	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014 J</b>		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Barium</b>	<b>0.67</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 07:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 07:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Calcium</b>	<b>39</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Chromium</b>	<b>0.014 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Cobalt</b>	<b>0.017 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Copper</b>	<b>0.092</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Iron</b>	<b>20</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:09	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 07:09	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Vanadium</b>	<b>0.045</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:09	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 07:09	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:52	09/18/15 10:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:52	09/18/15 10:50	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:16	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00049</b>		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B134 (0-2)**

**Lab Sample ID: 500-100874-24**

Date Collected: 09/04/15 14:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 09:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 14:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/14/15 14:50	09/14/15 17:50	1
pH	8.21		0.200	0.200	SU			09/11/15 15:15	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B133 (0-2)**

**Lab Sample ID: 500-100874-25**

**Date Collected: 09/04/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.026		0.026	0.0050	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Benzene	<0.0065		0.0065	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Bromodichloromethane	<0.0065		0.0065	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Bromoform	<0.0065		0.0065	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Bromomethane	<0.0065		0.0065	0.0024	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
2-Butanone (MEK)	<0.0065		0.0065	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Carbon disulfide	<0.0065		0.0065	0.0024	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Carbon tetrachloride	<0.0065		0.0065	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Chlorobenzene	<0.0065		0.0065	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Chloroethane	<0.0065		0.0065	0.0027	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Chloroform	<0.0065		0.0065	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Chloromethane	<0.0065		0.0065	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
cis-1,2-Dichloroethene	<0.0065		0.0065	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
cis-1,3-Dichloropropene	<0.0065		0.0065	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Dibromochloromethane	<0.0065		0.0065	0.00075	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,1-Dichloroethane	<0.0065		0.0065	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,2-Dichloroethane	<0.0065		0.0065	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,1-Dichloroethene	<0.0065		0.0065	0.0024	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,2-Dichloropropane	<0.0065		0.0065	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,3-Dichloropropane, Total	<0.0065		0.0065	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Ethylbenzene	<0.0065		0.0065	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
2-Hexanone	<0.0065		0.0065	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Methylene Chloride	<0.0065		0.0065	0.0049	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
4-Methyl-2-pentanone (MIBK)	<0.0065		0.0065	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Methyl tert-butyl ether	<0.0065		0.0065	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Styrene	<0.0065		0.0065	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,1,2,2-Tetrachloroethane	<0.0065		0.0065	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Tetrachloroethene	<0.0065		0.0065	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Toluene	<0.0065		0.0065	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
trans-1,2-Dichloroethene	<0.0065		0.0065	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
trans-1,3-Dichloropropene	<0.0065		0.0065	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,1,1-Trichloroethane	<0.0065		0.0065	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
1,1,2-Trichloroethane	<0.0065		0.0065	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Trichloroethene	<0.0065		0.0065	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Vinyl acetate	<0.0065		0.0065	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Vinyl chloride	<0.0065		0.0065	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1
Xylenes, Total	<0.013		0.013	0.0024	mg/Kg	☼	09/04/15 22:30	09/11/15 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/11/15 15:45	1
Dibromofluoromethane	100		75 - 120	09/04/15 22:30	09/11/15 15:45	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/04/15 22:30	09/11/15 15:45	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/11/15 15:45	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
<b>Benzo[a]anthracene</b>	<b>0.013</b>	<b>J</b>	0.036	0.0049	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B133 (0-2)**

**Lab Sample ID: 500-100874-25**

**Date Collected: 09/04/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.016</b>	<b>J</b>	0.036	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
<b>Benzo[b]fluoranthene</b>	<b>0.030</b>	<b>J</b>	0.036	0.0078	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
<b>Chrysene</b>	<b>0.019</b>	<b>J</b>	0.036	0.0098	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
<b>Fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.036	0.0067	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.012</b>	<b>J</b>	0.036	0.0094	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B133 (0-2)**

**Lab Sample ID: 500-100874-25**

**Date Collected: 09/04/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
<b>Phenanthrene</b>	<b>0.010</b>	<b>J</b>	0.036	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
<b>Pyrene</b>	<b>0.022</b>	<b>J</b>	0.036	0.0072	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	09/09/15 16:46	09/14/15 17:27	1
2-Fluorophenol	69		25 - 110	09/09/15 16:46	09/14/15 17:27	1
Nitrobenzene-d5	62		25 - 115	09/09/15 16:46	09/14/15 17:27	1
Phenol-d5	70		31 - 110	09/09/15 16:46	09/14/15 17:27	1
Terphenyl-d14	90		36 - 134	09/09/15 16:46	09/14/15 17:27	1
2,4,6-Tribromophenol	86		35 - 137	09/09/15 16:46	09/14/15 17:27	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Arsenic</b>	<b>5.9</b>		0.57	0.26	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Barium</b>	<b>88</b>		0.57	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Beryllium</b>	<b>0.66</b>		0.23	0.049	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Cadmium</b>	<b>0.33</b>		0.11	0.033	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Chromium</b>	<b>14</b>		0.57	0.098	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Cobalt</b>	<b>7.9</b>		0.28	0.064	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Copper</b>	<b>18</b>		0.57	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Iron</b>	<b>14000</b>		11	4.4	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Lead</b>	<b>68</b>		0.28	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Magnesium</b>	<b>8300</b>		5.7	2.3	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Calcium</b>	<b>14000</b>		11	3.7	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Manganese</b>	<b>390</b>		0.57	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Nickel</b>	<b>19</b>		0.57	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Selenium</b>	<b>0.70</b>		0.57	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Vanadium</b>	<b>21</b>		0.28	0.083	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Zinc</b>	<b>78</b>		1.1	0.36	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Potassium</b>	<b>1700</b>		28	4.6	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1
<b>Sodium</b>	<b>1300</b>		57	7.5	mg/Kg	☼	09/11/15 13:30	09/12/15 00:15	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 19:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 19:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 19:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B133 (0-2)**

**Lab Sample ID: 500-100874-25**

**Date Collected: 09/04/15 15:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>360</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 19:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 19:37	1
<b>Magnesium</b>	<b>84</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:37	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
<b>Potassium</b>	<b>3.6</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 19:37	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:37	1
<b>Zinc</b>	<b>0.045 J</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 19:37	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Barium</b>	<b>0.28 J</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 07:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 07:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Calcium</b>	<b>29</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:32	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Copper</b>	<b>0.014 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Iron</b>	<b>3.8</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Lead</b>	<b>0.021</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Magnesium</b>	<b>7.4</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 07:32	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Vanadium</b>	<b>0.012 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:32	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 07:32	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:38	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:17	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00024</b>		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B133 (0-2)**

**Lab Sample ID: 500-100874-25**

Date Collected: 09/04/15 15:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0064	mg/Kg	☼	09/11/15 17:00	09/14/15 14:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/14/15 14:50	09/14/15 17:50	1
pH	8.21		0.200	0.200	SU			09/11/15 15:21	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B147 (0-2)**

**Lab Sample ID: 500-100874-26**

**Date Collected: 09/04/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Methylene Chloride	<0.0052		0.0052	0.0040	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/04/15 22:30	09/11/15 16:09	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/11/15 16:09	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/04/15 22:30	09/11/15 16:09	1
Toluene-d8 (Surr)	94		75 - 122	09/04/15 22:30	09/11/15 16:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
<b>Benzo[a]anthracene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B147 (0-2)**

**Lab Sample ID: 500-100874-26**

**Date Collected: 09/04/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
<b>Chrysene</b>	<b>0.019</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
<b>Fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0099	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B147 (0-2)**

**Lab Sample ID: 500-100874-26**

Date Collected: 09/04/15 13:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
<b>Phenanthrene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
<b>Pyrene</b>	<b>0.025</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		25 - 119	09/09/15 16:46	09/14/15 17:57	1
2-Fluorophenol	73		25 - 110	09/09/15 16:46	09/14/15 17:57	1
Nitrobenzene-d5	60		25 - 115	09/09/15 16:46	09/14/15 17:57	1
Phenol-d5	73		31 - 110	09/09/15 16:46	09/14/15 17:57	1
Terphenyl-d14	85		36 - 134	09/09/15 16:46	09/14/15 17:57	1
2,4,6-Tribromophenol	82		35 - 137	09/09/15 16:46	09/14/15 17:57	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Arsenic</b>	<b>8.0</b>		0.58	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Barium</b>	<b>60</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Beryllium</b>	<b>0.76</b>		0.23	0.051	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Cadmium</b>	<b>0.17</b>		0.12	0.034	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Chromium</b>	<b>18</b>		0.58	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Iron</b>	<b>22000</b>		12	4.5	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Lead</b>	<b>17</b>		0.29	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Magnesium</b>	<b>11000</b>		5.8	2.4	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Calcium</b>	<b>15000</b>		12	3.8	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Manganese</b>	<b>330</b>		0.58	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Nickel</b>	<b>33</b>		0.58	0.16	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Vanadium</b>	<b>22</b>		0.29	0.085	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Zinc</b>	<b>69</b>		1.2	0.37	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Potassium</b>	<b>1600</b>		29	4.8	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1
<b>Sodium</b>	<b>1900</b>		58	7.7	mg/Kg	☼	09/11/15 13:30	09/12/15 00:20	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 19:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 19:42	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 19:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B147 (0-2)**

**Lab Sample ID: 500-100874-26**

Date Collected: 09/04/15 13:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.5

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:42	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
Cobalt	0.011	J	0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 19:42	1
Lead	0.012		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 19:42	1
Magnesium	54		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:42	1
Manganese	8.0		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
Potassium	1.7	J	2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 19:42	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:42	1
Zinc	0.15		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 19:42	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.041	J	0.050	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Barium	0.75		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 07:39	1
Beryllium	0.0051		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 07:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 07:39	1
Calcium	37		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:39	1
Chromium	0.091		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Cobalt	0.048		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Copper	0.14		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Iron	97		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 07:39	1
Lead	0.36		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 07:39	1
Magnesium	22		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:39	1
Manganese	2.2		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Nickel	0.11		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Potassium	18		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 07:39	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Vanadium	0.14		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:39	1
Zinc	0.38		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 07:39	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:39	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:18	1
Thallium	0.0022		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:18	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B147 (0-2)**

**Lab Sample ID: 500-100874-26**

Date Collected: 09/04/15 13:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0067	mg/Kg	☼	09/11/15 17:00	09/14/15 14:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/14/15 14:50	09/14/15 17:51	1
pH	8.28		0.200	0.200	SU			09/11/15 15:27	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B146 (0-2)**

**Lab Sample ID: 500-100874-27**

**Date Collected: 09/04/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.042</b>		0.022	0.0042	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
<b>2-Butanone (MEK)</b>	<b>0.0073</b>		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/04/15 22:30	09/11/15 16:34	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 16:34	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 22:30	09/11/15 16:34	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/11/15 16:34	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
<b>Benzo[a]anthracene</b>	<b>0.0087</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B146 (0-2)**

**Lab Sample ID: 500-100874-27**

**Date Collected: 09/04/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0091</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
<b>Benzo[b]fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.040	0.0086	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
<b>Fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B146 (0-2)**

**Lab Sample ID: 500-100874-27**

Date Collected: 09/04/15 13:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
<b>Phenanthrene</b>	<b>0.014</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	09/09/15 16:46	09/14/15 18:27	1
2-Fluorophenol	69		25 - 110	09/09/15 16:46	09/14/15 18:27	1
Nitrobenzene-d5	61		25 - 115	09/09/15 16:46	09/14/15 18:27	1
Phenol-d5	69		31 - 110	09/09/15 16:46	09/14/15 18:27	1
Terphenyl-d14	86		36 - 134	09/09/15 16:46	09/14/15 18:27	1
2,4,6-Tribromophenol	85		35 - 137	09/09/15 16:46	09/14/15 18:27	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.31</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Arsenic</b>	<b>11</b>		0.60	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Barium</b>	<b>60</b>		0.60	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Beryllium</b>	<b>0.73</b>		0.24	0.052	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Cadmium</b>	<b>0.22</b>		0.12	0.035	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Chromium</b>	<b>17</b>		0.60	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Cobalt</b>	<b>15</b>		0.30	0.068	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Copper</b>	<b>25</b>		0.60	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Iron</b>	<b>23000</b>		12	4.6	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Lead</b>	<b>26</b>		0.30	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Magnesium</b>	<b>16000</b>		6.0	2.4	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Calcium</b>	<b>22000</b>		12	3.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Manganese</b>	<b>500</b>		0.60	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Nickel</b>	<b>32</b>		0.60	0.16	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Vanadium</b>	<b>22</b>		0.30	0.087	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Zinc</b>	<b>77</b>		1.2	0.38	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Potassium</b>	<b>1900</b>		30	4.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1
<b>Sodium</b>	<b>2000</b>		60	7.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:24	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B146 (0-2)**

**Lab Sample ID: 500-100874-27**

**Date Collected: 09/04/15 13:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>180</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:47	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 19:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 19:47	1
<b>Magnesium</b>	<b>81</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:47	1
<b>Manganese</b>	<b>3.8</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
<b>Potassium</b>	<b>2.2 J</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 19:47	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:47	1
<b>Zinc</b>	<b>0.046 J</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 19:47	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.033 J</b>		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Barium</b>	<b>0.69</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Beryllium</b>	<b>0.0044</b>		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 07:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Calcium</b>	<b>25</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Chromium</b>	<b>0.070</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Cobalt</b>	<b>0.040</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Iron</b>	<b>77</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Lead</b>	<b>0.20</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Nickel</b>	<b>0.097</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Potassium</b>	<b>16</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:46	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 07:46	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:46	1
<b>Zinc</b>	<b>0.47</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 07:46	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:40	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:18	1
<b>Thallium</b>	<b>0.0023</b>		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:18	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00030</b>		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:13	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B146 (0-2)**

**Lab Sample ID: 500-100874-27**

Date Collected: 09/04/15 13:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.6

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083		0.017	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 14:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	09/14/15 14:50	09/14/15 17:51	1
pH	8.54		0.200	0.200	SU			09/11/15 15:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B145 (0-2)**

**Lab Sample ID: 500-100874-28**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.025</b>		0.022	0.0042	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
2-Butanone (MEK)	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/04/15 22:30	09/11/15 16:58	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/11/15 16:58	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/04/15 22:30	09/11/15 16:58	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/11/15 16:58	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Anthracene</b>	<b>0.012</b>	<b>J</b>	0.041	0.0070	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Benzo[a]anthracene</b>	<b>0.052</b>		0.041	0.0056	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B145 (0-2)**

**Lab Sample ID: 500-100874-28**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.057</b>		0.041	0.0081	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Benzo[b]fluoranthene</b>	<b>0.089</b>		0.041	0.0090	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Benzo[g,h,i]perylene</b>	<b>0.022</b>	<b>J</b>	0.041	0.013	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Benzo[k]fluoranthene</b>	<b>0.030</b>	<b>J</b>	0.041	0.012	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Chrysene</b>	<b>0.072</b>		0.041	0.011	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,4-Dinitrophenol	<0.84	*	0.84	0.73	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Fluoranthene</b>	<b>0.084</b>		0.041	0.0077	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.023</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B145 (0-2)**

**Lab Sample ID: 500-100874-28**

Date Collected: 09/04/15 13:15

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Phenanthrene</b>	<b>0.066</b>		0.041	0.0058	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
<b>Pyrene</b>	<b>0.099</b>		0.041	0.0083	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 16:46	09/16/15 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		25 - 119	09/09/15 16:46	09/16/15 15:15	1
2-Fluorophenol	94		25 - 110	09/09/15 16:46	09/16/15 15:15	1
Nitrobenzene-d5	83		25 - 115	09/09/15 16:46	09/16/15 15:15	1
Phenol-d5	97		31 - 110	09/09/15 16:46	09/16/15 15:15	1
Terphenyl-d14	109		36 - 134	09/09/15 16:46	09/16/15 15:15	1
2,4,6-Tribromophenol	90		35 - 137	09/09/15 16:46	09/16/15 15:15	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.36</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Arsenic</b>	<b>8.8</b>		0.60	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Barium</b>	<b>74</b>		0.60	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Beryllium</b>	<b>0.75</b>		0.24	0.052	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Cadmium</b>	<b>0.29</b>		0.12	0.035	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Chromium</b>	<b>18</b>		0.60	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Cobalt</b>	<b>14</b>		0.30	0.068	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Copper</b>	<b>23</b>		0.60	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Iron</b>	<b>23000</b>		12	4.7	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Lead</b>	<b>30</b>		0.30	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Magnesium</b>	<b>9000</b>		6.0	2.5	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Calcium</b>	<b>12000</b>		12	3.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Manganese</b>	<b>380</b>		0.60	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Nickel</b>	<b>30</b>		0.60	0.16	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Selenium</b>	<b>0.76</b>		0.60	0.30	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Vanadium</b>	<b>24</b>		0.30	0.088	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Zinc</b>	<b>77</b>		1.2	0.38	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Potassium</b>	<b>1800</b>		30	4.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1
<b>Sodium</b>	<b>2000</b>		60	8.0	mg/Kg	☼	09/11/15 13:30	09/12/15 00:29	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 19:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 19:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 19:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B145 (0-2)**

**Lab Sample ID: 500-100874-28**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>130</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 19:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 19:52	1
<b>Magnesium</b>	<b>52</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:52	1
<b>Manganese</b>	<b>10</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
<b>Potassium</b>	<b>2.8</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 19:52	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:52	1
<b>Zinc</b>	<b>0.13</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 19:52	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:00	09/16/15 07:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 07:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Calcium</b>	<b>15</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Iron</b>	<b>7.9</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Magnesium</b>	<b>3.6</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 07:52	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Vanadium</b>	<b>0.030</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:52	1
<b>Zinc</b>	<b>0.088</b>	<b>J</b>	0.10	0.020	mg/L		09/14/15 19:00	09/16/15 07:52	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:42	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:19	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B145 (0-2)**

**Lab Sample ID: 500-100874-28**

**Date Collected: 09/04/15 13:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:50	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.040</b>		0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 14:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/14/15 14:50	09/14/15 17:51	1
pH	<b>8.06</b>		0.200	0.200	SU			09/11/15 15:39	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B144 (0-2)**

**Lab Sample ID: 500-100874-29**

**Date Collected: 09/04/15 13:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 78.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.025</b>		0.022	0.0043	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/04/15 22:30	09/11/15 17:23	1
Dibromofluoromethane	97		75 - 120	09/04/15 22:30	09/11/15 17:23	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	09/04/15 22:30	09/11/15 17:23	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/11/15 17:23	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B144 (0-2)**

**Lab Sample ID: 500-100874-29**

**Date Collected: 09/04/15 13:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 78.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,4-Dinitrophenol	<0.82	*	0.82	0.72	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
<b>Fluoranthene</b>	<b>0.0092</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B144 (0-2)**

**Lab Sample ID: 500-100874-29**

Date Collected: 09/04/15 13:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 78.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
<b>Phenanthrene</b>	<b>0.0060</b>	<b>J</b>	0.041	0.0057	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
<b>Pyrene</b>	<b>0.0088</b>	<b>J</b>	0.041	0.0081	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	09/09/15 16:46	09/14/15 18:56	1
2-Fluorophenol	81		25 - 110	09/09/15 16:46	09/14/15 18:56	1
Nitrobenzene-d5	71		25 - 115	09/09/15 16:46	09/14/15 18:56	1
Phenol-d5	81		31 - 110	09/09/15 16:46	09/14/15 18:56	1
Terphenyl-d14	95		36 - 134	09/09/15 16:46	09/14/15 18:56	1
2,4,6-Tribromophenol	89		35 - 137	09/09/15 16:46	09/14/15 18:56	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.28</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Arsenic</b>	<b>7.8</b>		0.61	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Barium</b>	<b>93</b>		0.61	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Beryllium</b>	<b>0.62</b>		0.24	0.052	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Cadmium</b>	<b>0.29</b>		0.12	0.035	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Chromium</b>	<b>13</b>		0.61	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Cobalt</b>	<b>11</b>		0.30	0.068	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Copper</b>	<b>16</b>		0.61	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Iron</b>	<b>17000</b>		12	4.7	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Lead</b>	<b>23</b>		0.30	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Magnesium</b>	<b>16000</b>		6.1	2.5	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Calcium</b>	<b>25000</b>		12	3.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Manganese</b>	<b>660</b>		0.61	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Nickel</b>	<b>20</b>		0.61	0.16	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Selenium</b>	<b>0.36</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Vanadium</b>	<b>22</b>		0.30	0.088	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Zinc</b>	<b>71</b>		1.2	0.38	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Potassium</b>	<b>1200</b>		30	4.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1
<b>Sodium</b>	<b>2000</b>		61	8.0	mg/Kg	☼	09/11/15 13:30	09/12/15 00:42	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
<b>Barium</b>	<b>0.51</b>		0.50	0.050	mg/L		09/17/15 13:53	09/17/15 19:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 19:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 19:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B144 (0-2)**

**Lab Sample ID: 500-100874-29**

**Date Collected: 09/04/15 13:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 78.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>210</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 19:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 19:58	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:58	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
<b>Potassium</b>	<b>1.1</b>	<b>J</b>	2.5	0.50	mg/L		09/17/15 13:53	09/17/15 19:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 19:58	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 19:58	1
<b>Zinc</b>	<b>0.038</b>	<b>J</b>	0.10	0.020	mg/L		09/17/15 13:53	09/17/15 19:58	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:00	09/16/15 07:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 07:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Calcium</b>	<b>16</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:59	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Iron</b>	<b>4.8</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Lead</b>	<b>0.024</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Magnesium</b>	<b>5.1</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Potassium</b>	<b>2.3</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 19:00	09/16/15 07:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 07:59	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Vanadium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 07:59	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 07:59	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:43	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:20	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B144 (0-2)**

**Lab Sample ID: 500-100874-29**

Date Collected: 09/04/15 13:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 78.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:52	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.020	0.0070	mg/Kg	☼	09/11/15 17:00	09/14/15 14:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	09/14/15 14:50	09/14/15 17:51	1
pH	7.52		0.200	0.200	SU			09/11/15 15:45	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B143 (0-2)**

**Lab Sample ID: 500-100874-30**

**Date Collected: 09/04/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/11/15 17:47	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/11/15 17:47	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 22:30	09/11/15 17:47	1
Toluene-d8 (Surr)	91		75 - 122	09/04/15 22:30	09/11/15 17:47	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.037	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B143 (0-2)**

**Lab Sample ID: 500-100874-30**

**Date Collected: 09/04/15 13:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 87.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.023	J	0.037	0.0072	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Benzo[b]fluoranthene	0.040		0.037	0.0081	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Benzo[g,h,i]perylene	0.013	J	0.037	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Chrysene	0.029	J	0.037	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Fluoranthene	0.032	J	0.037	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.037	0.0097	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B143 (0-2)**

**Lab Sample ID: 500-100874-30**

Date Collected: 09/04/15 13:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
<b>Phenanthrene</b>	<b>0.017</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
<b>Pyrene</b>	<b>0.032</b>	<b>J</b>	0.037	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/09/15 16:46	09/14/15 19:26	1
2-Fluorophenol	82		25 - 110	09/09/15 16:46	09/14/15 19:26	1
Nitrobenzene-d5	74		25 - 115	09/09/15 16:46	09/14/15 19:26	1
Phenol-d5	83		31 - 110	09/09/15 16:46	09/14/15 19:26	1
Terphenyl-d14	106		36 - 134	09/09/15 16:46	09/14/15 19:26	1
2,4,6-Tribromophenol	96		35 - 137	09/09/15 16:46	09/14/15 19:26	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.62</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Arsenic</b>	<b>13</b>		0.55	0.26	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Barium</b>	<b>37</b>		0.55	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Beryllium</b>	<b>0.53</b>		0.22	0.048	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Cadmium</b>	<b>0.27</b>		0.11	0.032	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Chromium</b>	<b>11</b>		0.55	0.095	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Cobalt</b>	<b>15</b>		0.28	0.062	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Copper</b>	<b>26</b>		0.55	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Iron</b>	<b>21000</b>		11	4.3	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Lead</b>	<b>26</b>		0.28	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Magnesium</b>	<b>29000</b>		5.5	2.2	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Calcium</b>	<b>61000</b>		110	36	mg/Kg	☼	09/11/15 13:30	09/14/15 19:06	10
<b>Manganese</b>	<b>620</b>		0.55	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Nickel</b>	<b>31</b>		0.55	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Selenium</b>	<b>0.30</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Vanadium</b>	<b>15</b>		0.28	0.081	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Zinc</b>	<b>86</b>		1.1	0.35	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Potassium</b>	<b>1300</b>		28	4.5	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1
<b>Sodium</b>	<b>1100</b>		55	7.3	mg/Kg	☼	09/11/15 13:30	09/12/15 00:47	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 20:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 20:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 20:03	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B143 (0-2)**

**Lab Sample ID: 500-100874-30**

Date Collected: 09/04/15 13:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.0

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:03	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 20:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 20:03	1
<b>Magnesium</b>	<b>98</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:03	1
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
<b>Potassium</b>	<b>1.4 J</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 20:03	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:03	1
<b>Zinc</b>	<b>0.044 J</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 20:03	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010 J</b>		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 08:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 08:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Calcium</b>	<b>29</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Chromium</b>	<b>0.025</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Cobalt</b>	<b>0.018 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Iron</b>	<b>24</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Magnesium</b>	<b>11</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Potassium</b>	<b>7.2</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:06	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 08:06	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Vanadium</b>	<b>0.044</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:06	1
<b>Zinc</b>	<b>0.21</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 08:06	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:44	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:21	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B143 (0-2)**

**Lab Sample ID: 500-100874-30**

Date Collected: 09/04/15 13:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 87.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:54	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 14:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/14/15 14:50	09/14/15 17:52	1
pH	8.73		0.200	0.200	SU			09/11/15 15:51	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B142 (0-2)**

**Lab Sample ID: 500-100874-31**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/04/15 22:30	09/11/15 18:11	1
Dibromofluoromethane	105		75 - 120	09/04/15 22:30	09/11/15 18:11	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	09/04/15 22:30	09/11/15 18:11	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/11/15 18:11	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B142 (0-2)**

**Lab Sample ID: 500-100874-31**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,4-Dinitrophenol	<0.77 *		0.77	0.67	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B142 (0-2)**

**Lab Sample ID: 500-100874-31**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	09/09/15 16:46	09/14/15 19:55	1
2-Fluorophenol	78		25 - 110	09/09/15 16:46	09/14/15 19:55	1
Nitrobenzene-d5	71		25 - 115	09/09/15 16:46	09/14/15 19:55	1
Phenol-d5	82		31 - 110	09/09/15 16:46	09/14/15 19:55	1
Terphenyl-d14	105		36 - 134	09/09/15 16:46	09/14/15 19:55	1
2,4,6-Tribromophenol	88		35 - 137	09/09/15 16:46	09/14/15 19:55	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.28</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Arsenic</b>	<b>9.2</b>		0.58	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Barium</b>	<b>120</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Beryllium</b>	<b>0.83</b>		0.23	0.050	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Cadmium</b>	<b>0.18</b>		0.12	0.033	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Chromium</b>	<b>21</b>		0.58	0.099	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Cobalt</b>	<b>18</b>		0.29	0.065	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Copper</b>	<b>26</b>		0.58	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Iron</b>	<b>25000</b>		12	4.4	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Lead</b>	<b>23</b>		0.29	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Magnesium</b>	<b>5800</b>		5.8	2.3	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Calcium</b>	<b>3900</b>		12	3.7	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Manganese</b>	<b>530</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Nickel</b>	<b>43</b>		0.58	0.16	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Selenium</b>	<b>0.42</b>	<b>J</b>	0.58	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Vanadium</b>	<b>24</b>		0.29	0.084	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Zinc</b>	<b>82</b>		1.2	0.36	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Potassium</b>	<b>2100</b>		29	4.7	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1
<b>Sodium</b>	<b>1900</b>		58	7.6	mg/Kg	☼	09/11/15 13:30	09/12/15 00:52	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:52	09/17/15 22:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:52	09/17/15 22:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:52	09/17/15 22:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B142 (0-2)**

**Lab Sample ID: 500-100874-31**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>530</b>		2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:49	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:52	09/17/15 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:52	09/17/15 22:49	1
<b>Magnesium</b>	<b>250</b>		2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:49	1
<b>Manganese</b>	<b>5.4</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
<b>Potassium</b>	<b>0.83</b>	<b>J</b>	2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:52	09/17/15 22:49	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:49	1
<b>Zinc</b>	<b>0.038</b>	<b>J</b>	0.10	0.020	mg/L		09/17/15 13:52	09/17/15 22:49	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Barium</b>	<b>0.71</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 08:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 08:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Calcium</b>	<b>37</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:13	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Copper</b>	<b>0.027</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Iron</b>	<b>5.7</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Lead</b>	<b>0.074</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Magnesium</b>	<b>9.7</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Manganese</b>	<b>0.75</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Potassium</b>	<b>2.4</b>	<b>J</b>	2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:13	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 08:13	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Vanadium</b>	<b>0.025</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:13	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 08:13	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:52	09/18/15 10:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:52	09/18/15 10:54	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:22	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 15:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B142 (0-2)**

**Lab Sample ID: 500-100874-31**

**Date Collected: 09/04/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 09:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/14/15 14:50	09/14/15 17:53	1
pH	8.19		0.200	0.200	SU			09/11/15 15:57	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 (0-2)**

**Lab Sample ID: 500-100874-32**

**Date Collected: 09/04/15 13:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.021</b>	<b>J</b>	0.022	0.0042	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Bromodichloromethane	<0.0054		0.0054	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Dibromochloromethane	<0.0054		0.0054	0.00063	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,2-Dichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Vinyl acetate	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/04/15 22:30	09/11/15 18:36	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 18:36	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/04/15 22:30	09/11/15 18:36	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/11/15 18:36	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Anthracene</b>	<b>0.011</b>	<b>J</b>	0.035	0.0060	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Benzo[a]anthracene</b>	<b>0.068</b>		0.035	0.0048	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 (0-2)**

**Lab Sample ID: 500-100874-32**

**Date Collected: 09/04/15 13:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.072</b>		0.035	0.0069	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Benzo[b]fluoranthene</b>	<b>0.13</b>		0.035	0.0077	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Benzo[g,h,i]perylene</b>	<b>0.035</b>		0.035	0.011	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Benzo[k]fluoranthene</b>	<b>0.058</b>		0.035	0.010	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Chrysene</b>	<b>0.098</b>		0.035	0.0097	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Fluoranthene</b>	<b>0.12</b>		0.035	0.0066	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.036</b>		0.035	0.0092	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>2-Methylnaphthalene</b>	<b>0.013</b>	J	0.035	0.0066	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Naphthalene</b>	<b>0.0071</b>	J	0.035	0.0055	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 (0-2)**

**Lab Sample ID: 500-100874-32**

**Date Collected: 09/04/15 13:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Phenanthrene</b>	<b>0.077</b>		0.035	0.0050	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
<b>Pyrene</b>	<b>0.16</b>		0.035	0.0071	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	09/09/15 16:46	09/16/15 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		25 - 119	09/09/15 16:46	09/16/15 15:41	1
2-Fluorophenol	103		25 - 110	09/09/15 16:46	09/16/15 15:41	1
Nitrobenzene-d5	94		25 - 115	09/09/15 16:46	09/16/15 15:41	1
Phenol-d5	107		31 - 110	09/09/15 16:46	09/16/15 15:41	1
Terphenyl-d14	149	X	36 - 134	09/09/15 16:46	09/16/15 15:41	1
2,4,6-Tribromophenol	94		35 - 137	09/09/15 16:46	09/16/15 15:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.24</b>	<b>J</b>	1.0	0.22	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Arsenic</b>	<b>9.9</b>		0.52	0.24	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Barium</b>	<b>44</b>		0.52	0.095	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Beryllium</b>	<b>0.63</b>		0.21	0.045	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Cadmium</b>	<b>0.26</b>		0.10	0.030	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Chromium</b>	<b>14</b>		0.52	0.089	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Cobalt</b>	<b>13</b>		0.26	0.059	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Copper</b>	<b>24</b>		0.52	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Iron</b>	<b>20000</b>		10	4.0	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Lead</b>	<b>25</b>		0.26	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Magnesium</b>	<b>25000</b>		5.2	2.1	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Calcium</b>	<b>53000</b>		100	33	mg/Kg	☼	09/11/15 13:30	09/14/15 19:10	10
<b>Manganese</b>	<b>430</b>		0.52	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Nickel</b>	<b>29</b>		0.52	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Selenium</b>	<b>0.47</b>	<b>J</b>	0.52	0.26	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Vanadium</b>	<b>17</b>		0.26	0.076	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Zinc</b>	<b>80</b>		1.0	0.33	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Potassium</b>	<b>1500</b>		26	4.2	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1
<b>Sodium</b>	<b>1800</b>		52	6.9	mg/Kg	☼	09/11/15 13:30	09/12/15 00:57	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 20:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 20:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 20:08	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 (0-2)**

**Lab Sample ID: 500-100874-32**

**Date Collected: 09/04/15 13:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 88.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 20:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 20:08	1
<b>Magnesium</b>	<b>76</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:08	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
<b>Potassium</b>	<b>2.0</b>	<b>J</b>	2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 20:08	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:08	1
<b>Zinc</b>	<b>0.044</b>	<b>J</b>	0.10	0.020	mg/L		09/17/15 13:53	09/17/15 20:08	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 08:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 08:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Calcium</b>	<b>34</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Chromium</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Copper</b>	<b>0.057</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Iron</b>	<b>14</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Lead</b>	<b>0.39</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Magnesium</b>	<b>10</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Potassium</b>	<b>4.9</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 08:20	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Vanadium</b>	<b>0.036</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:20	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 08:20	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:45	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:24	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 15:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 (0-2)**

**Lab Sample ID: 500-100874-32**

Date Collected: 09/04/15 13:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 88.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:56	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0062	mg/Kg	☼	09/11/15 17:00	09/14/15 14:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/14/15 14:50	09/14/15 17:53	1
pH	8.46		0.200	0.200	SU			09/11/15 16:03	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 DUP (0-2)**

**Lab Sample ID: 500-100874-33**

**Date Collected: 09/04/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.024</b>		0.021	0.0041	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,3-Dichloropropane, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Toluene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/04/15 22:30	09/11/15 19:00	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/11/15 19:00	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/04/15 22:30	09/11/15 19:00	1
Toluene-d8 (Surr)	96		75 - 122	09/04/15 22:30	09/11/15 19:00	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Benzo[a]anthracene</b>	<b>0.070</b>		0.038	0.0052	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 DUP (0-2)**

**Lab Sample ID: 500-100874-33**

Date Collected: 09/04/15 13:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.073</b>		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Benzo[b]fluoranthene</b>	<b>0.13</b>		0.038	0.0083	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Benzo[g,h,i]perylene</b>	<b>0.056</b>		0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Benzo[k]fluoranthene</b>	<b>0.059</b>		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Chrysene</b>	<b>0.080</b>		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,4-Dinitrophenol	<0.78 *		0.78	0.68	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Fluoranthene</b>	<b>0.13</b>		0.038	0.0071	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.051</b>		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 DUP (0-2)**

**Lab Sample ID: 500-100874-33**

Date Collected: 09/04/15 13:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.3

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Phenanthrene</b>	<b>0.091</b>		0.038	0.0054	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
<b>Pyrene</b>	<b>0.25</b>		0.038	0.0076	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/16/15 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/09/15 16:46	09/16/15 00:43	1
2-Fluorophenol	82		25 - 110	09/09/15 16:46	09/16/15 00:43	1
Nitrobenzene-d5	72		25 - 115	09/09/15 16:46	09/16/15 00:43	1
Phenol-d5	77		31 - 110	09/09/15 16:46	09/16/15 00:43	1
Terphenyl-d14	195	X	36 - 134	09/09/15 16:46	09/16/15 00:43	1
2,4,6-Tribromophenol	83		35 - 137	09/09/15 16:46	09/16/15 00:43	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Arsenic</b>	<b>10</b>		0.57	0.26	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Barium</b>	<b>30</b>		0.57	0.10	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.049	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.033	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Chromium</b>	<b>11</b>		0.57	0.098	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Cobalt</b>	<b>12</b>		0.28	0.064	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Copper</b>	<b>21</b>		0.57	0.12	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Lead</b>	<b>17</b>		0.28	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Magnesium</b>	<b>33000</b>		5.7	2.3	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Calcium</b>	<b>76000</b>		110	37	mg/Kg	☼	09/11/15 13:30	09/14/15 19:14	10
<b>Manganese</b>	<b>480</b>		0.57	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Nickel</b>	<b>27</b>		0.57	0.15	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Selenium</b>	<b>0.55</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Vanadium</b>	<b>16</b>		0.28	0.083	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Zinc</b>	<b>120</b>		1.1	0.36	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Potassium</b>	<b>1200</b>		28	4.6	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1
<b>Sodium</b>	<b>1700</b>		57	7.5	mg/Kg	☼	09/11/15 13:30	09/12/15 01:02	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:53	09/17/15 20:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 20:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 20:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 DUP (0-2)**

**Lab Sample ID: 500-100874-33**

**Date Collected: 09/04/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:13	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 20:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 20:13	1
<b>Magnesium</b>	<b>87</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:13	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
<b>Potassium</b>	<b>1.5 J</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:13	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 20:13	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:13	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 20:13	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Barium</b>	<b>0.35 J</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 08:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 08:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Calcium</b>	<b>26</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:26	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Iron</b>	<b>5.5</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Magnesium</b>	<b>7.8</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Nickel</b>	<b>0.015 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Potassium</b>	<b>2.5</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 08:26	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Vanadium</b>	<b>0.017 J</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:26	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 08:26	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:46	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:25	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 15:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B140 DUP (0-2)**

**Lab Sample ID: 500-100874-33**

**Date Collected: 09/04/15 13:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:58	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 14:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	09/14/15 14:50	09/14/15 17:53	1
pH	8.22		0.200	0.200	SU			09/11/15 16:09	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B139 (0-2)**

**Lab Sample ID: 500-100874-34**

**Date Collected: 09/04/15 14:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/15 22:30	09/11/15 19:25	1
Dibromofluoromethane	106		75 - 120	09/04/15 22:30	09/11/15 19:25	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	09/04/15 22:30	09/11/15 19:25	1
Toluene-d8 (Surr)	93		75 - 122	09/04/15 22:30	09/11/15 19:25	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B139 (0-2)**

**Lab Sample ID: 500-100874-34**

**Date Collected: 09/04/15 14:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B139 (0-2)**

**Lab Sample ID: 500-100874-34**

**Date Collected: 09/04/15 14:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	09/09/15 16:46	09/14/15 13:59	1
2-Fluorophenol	80		25 - 110	09/09/15 16:46	09/14/15 13:59	1
Nitrobenzene-d5	66		25 - 115	09/09/15 16:46	09/14/15 13:59	1
Phenol-d5	80		31 - 110	09/09/15 16:46	09/14/15 13:59	1
Terphenyl-d14	86		36 - 134	09/09/15 16:46	09/14/15 13:59	1
2,4,6-Tribromophenol	93		35 - 137	09/09/15 16:46	09/14/15 13:59	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Arsenic</b>	<b>5.0</b>		0.58	0.27	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Barium</b>	<b>47</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Beryllium</b>	<b>0.87</b>		0.23	0.050	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Cadmium</b>	<b>0.15</b>		0.12	0.033	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Chromium</b>	<b>20</b>		0.58	0.099	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Cobalt</b>	<b>16</b>		0.29	0.065	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Copper</b>	<b>22</b>		0.58	0.13	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Lead</b>	<b>13</b>		0.29	0.14	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Magnesium</b>	<b>31000</b>		5.8	2.3	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Calcium</b>	<b>81000</b>		120	37	mg/Kg	☼	09/11/15 13:30	09/14/15 19:18	10
<b>Manganese</b>	<b>410</b>		0.58	0.11	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Nickel</b>	<b>38</b>		0.58	0.16	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Vanadium</b>	<b>21</b>		0.29	0.084	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Zinc</b>	<b>50</b>		1.2	0.37	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Potassium</b>	<b>2900</b>		29	4.7	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1
<b>Sodium</b>	<b>1400</b>		58	7.6	mg/Kg	☼	09/11/15 13:30	09/12/15 01:07	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		09/17/15 13:52	09/17/15 22:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:52	09/17/15 22:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:52	09/17/15 22:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B139 (0-2)**

**Lab Sample ID: 500-100874-34**

**Date Collected: 09/04/15 14:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1000</b>		25	5.0	mg/L		09/17/15 13:52	09/18/15 12:33	10
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
Cobalt	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
Iron	<0.20		0.20	0.20	mg/L		09/17/15 13:52	09/17/15 22:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:52	09/17/15 22:53	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:53	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
<b>Potassium</b>	<b>1.1</b>	<b>J</b>	2.5	0.50	mg/L		09/17/15 13:52	09/17/15 22:53	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:52	09/17/15 22:53	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:52	09/17/15 22:53	1
<b>Zinc</b>	<b>0.064</b>	<b>J</b>	0.10	0.020	mg/L		09/17/15 13:52	09/17/15 22:53	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.035</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Beryllium</b>	<b>0.0064</b>		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 08:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Calcium</b>	<b>120</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Cobalt</b>	<b>0.040</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Lead</b>	<b>0.058</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Magnesium</b>	<b>63</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Manganese</b>	<b>0.76</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Nickel</b>	<b>0.16</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Potassium</b>	<b>31</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 08:33	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Vanadium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:33	1
<b>Zinc</b>	<b>0.32</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 08:33	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:52	09/18/15 10:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:52	09/18/15 10:54	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:28	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 15:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B139 (0-2)**

**Lab Sample ID: 500-100874-34**

Date Collected: 09/04/15 14:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 09:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.020	0.0068	mg/Kg	☼	09/11/15 17:00	09/14/15 14:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/14/15 20:55	09/14/15 22:56	1
pH	8.17		0.200	0.200	SU			09/11/15 16:15	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B138 (0-2)**

**Lab Sample ID: 500-100874-35**

**Date Collected: 09/04/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.11</b>		0.025	0.0049	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Benzene	<0.0063		0.0063	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Bromodichloromethane	<0.0063		0.0063	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Bromoform	<0.0063		0.0063	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Bromomethane	<0.0063		0.0063	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
<b>2-Butanone (MEK)</b>	<b>0.020</b>		0.0063	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Carbon disulfide	<0.0063		0.0063	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Carbon tetrachloride	<0.0063		0.0063	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Chlorobenzene	<0.0063		0.0063	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Chloroethane	<0.0063		0.0063	0.0027	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Chloroform	<0.0063		0.0063	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Chloromethane	<0.0063		0.0063	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
cis-1,2-Dichloroethene	<0.0063		0.0063	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
cis-1,3-Dichloropropene	<0.0063		0.0063	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Dibromochloromethane	<0.0063		0.0063	0.00073	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,1-Dichloroethane	<0.0063		0.0063	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,2-Dichloroethane	<0.0063		0.0063	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,1-Dichloroethene	<0.0063		0.0063	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,2-Dichloropropane	<0.0063		0.0063	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,3-Dichloropropene, Total	<0.0063		0.0063	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Ethylbenzene	<0.0063		0.0063	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
2-Hexanone	<0.0063		0.0063	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Methylene Chloride	<0.0063		0.0063	0.0048	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
4-Methyl-2-pentanone (MIBK)	<0.0063		0.0063	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Methyl tert-butyl ether	<0.0063		0.0063	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Styrene	<0.0063		0.0063	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,1,2,2-Tetrachloroethane	<0.0063		0.0063	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Tetrachloroethene	<0.0063		0.0063	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Toluene	<0.0063		0.0063	0.0022	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
trans-1,2-Dichloroethene	<0.0063		0.0063	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
trans-1,3-Dichloropropene	<0.0063		0.0063	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,1,1-Trichloroethane	<0.0063		0.0063	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
1,1,2-Trichloroethane	<0.0063		0.0063	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Trichloroethene	<0.0063		0.0063	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Vinyl acetate	<0.0063		0.0063	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Vinyl chloride	<0.0063		0.0063	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1
Xylenes, Total	<0.013		0.013	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/04/15 22:30	09/11/15 19:49	1
Dibromofluoromethane	95		75 - 120	09/04/15 22:30	09/11/15 19:49	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/04/15 22:30	09/11/15 19:49	1
Toluene-d8 (Surr)	92		75 - 122	09/04/15 22:30	09/11/15 19:49	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B138 (0-2)**

**Lab Sample ID: 500-100874-35**

**Date Collected: 09/04/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B138 (0-2)**

**Lab Sample ID: 500-100874-35**

Date Collected: 09/04/15 14:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/09/15 16:46	09/14/15 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		25 - 119	09/09/15 16:46	09/14/15 14:29	1
2-Fluorophenol	69		25 - 110	09/09/15 16:46	09/14/15 14:29	1
Nitrobenzene-d5	60		25 - 115	09/09/15 16:46	09/14/15 14:29	1
Phenol-d5	70		31 - 110	09/09/15 16:46	09/14/15 14:29	1
Terphenyl-d14	83		36 - 134	09/09/15 16:46	09/14/15 14:29	1
2,4,6-Tribromophenol	89		35 - 137	09/09/15 16:46	09/14/15 14:29	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.25	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Arsenic	9.4		0.61	0.28	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Barium	99		0.61	0.11	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Beryllium	0.76		0.25	0.053	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Cadmium	0.31		0.12	0.036	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Chromium	20		0.61	0.11	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Cobalt	15		0.31	0.069	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Copper	20		0.61	0.13	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Iron	22000	B	12	4.7	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Lead	21		0.31	0.15	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Magnesium	5100		6.1	2.5	mg/Kg	☼	09/14/15 11:00	09/14/15 20:45	1
Calcium	5700		12	3.9	mg/Kg	☼	09/14/15 11:00	09/14/15 20:45	1
Manganese	630		0.61	0.12	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Nickel	29		0.61	0.17	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Selenium	0.62		0.61	0.30	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Vanadium	29		0.31	0.090	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Zinc	78		1.2	0.39	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Potassium	2100		31	5.0	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1
Sodium	1700		61	8.1	mg/Kg	☼	09/14/15 11:00	09/14/15 16:47	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
Barium	0.50		0.50	0.050	mg/L		09/17/15 13:53	09/17/15 20:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/17/15 13:53	09/17/15 20:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/17/15 13:53	09/17/15 20:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B138 (0-2)**

**Lab Sample ID: 500-100874-35**

**Date Collected: 09/04/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>120</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
<b>Cobalt</b>	<b>0.026</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
Copper	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
<b>Iron</b>	<b>0.24</b>		0.20	0.20	mg/L		09/17/15 13:53	09/17/15 20:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/17/15 13:53	09/17/15 20:18	1
<b>Magnesium</b>	<b>38</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:18	1
<b>Manganese</b>	<b>16</b>		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
Nickel	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
<b>Potassium</b>	<b>4.1</b>		2.5	0.50	mg/L		09/17/15 13:53	09/17/15 20:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/17/15 13:53	09/17/15 20:18	1
Silver	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
Vanadium	<0.025		0.025	0.010	mg/L		09/17/15 13:53	09/17/15 20:18	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/17/15 13:53	09/17/15 20:18	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		09/14/15 19:00	09/16/15 08:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 19:00	09/16/15 08:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Calcium</b>	<b>14</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Copper</b>	<b>0.033</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Iron</b>	<b>5.8</b>		0.20	0.20	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Lead</b>	<b>0.034</b>		0.0075	0.0075	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Magnesium</b>	<b>4.1</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/14/15 19:00	09/16/15 08:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 19:00	09/16/15 08:58	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Vanadium</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 19:00	09/16/15 08:58	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/14/15 19:00	09/16/15 08:58	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/17/15 13:53	09/18/15 10:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/17/15 13:53	09/18/15 10:47	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 19:00	09/15/15 14:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 19:00	09/15/15 14:29	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 15:16	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

**Client Sample ID: 2618-7-B138 (0-2)**

**Lab Sample ID: 500-100874-35**

**Date Collected: 09/04/15 14:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/17/15 17:15	09/18/15 10:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 14:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.21	mg/Kg	☼	09/14/15 20:55	09/14/15 22:56	1
pH	7.54		0.200	0.200	SU			09/11/15 16:21	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100874-7

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) MATTRESS  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional) \_\_\_\_\_  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100874  
Chain of Custody Number: \_\_\_\_\_  
Page 7 of 10  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #				VOCS	SVOCS	TOTALC	TRCP	SPUP	PAH	
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						Comments
21		2618-7-B137 (0-2)	9/14/15	1430			X	X	X	X	X	
22		-B136 (0-2)		1435			↓	↓	↓	↓	↓	
23		-B135		1445			↓	↓	↓	↓	↓	
24		-B134		1450			↓	↓	↓	↓	↓	
25		-B133		1500			↓	↓	↓	↓	↓	

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/14/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/14/15</u> Time: <u>1600</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/14/15</u> Time: <u>1855</u>	Received By: <u>[Signature]</u> Company: <u>TA-EAPE</u> Date: <u>9/14/15</u> Time: <u>2100</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TTA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key  
WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments: SAME SEE PS.1

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) MATTHEWS  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100874  
 Chain of Custody Number: \_\_\_\_\_  
 Page 8 of 10  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter						Preservative Key		
<u>TERRACON</u>		<u>1157108</u>				<u>VOCs</u> <u>SVOCs</u> <u>TOTAL</u> <u>TCMP</u> <u>SPCP</u> <u>PA</u> <u>24</u> <u>24</u> <u>24</u> <u>24</u> <u>24</u> <u>PA</u> <u>INORGANICS</u> <u>INORGANICS</u> <u>INORGANICS</u>						1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		# of Containers		Matrix						Comments
<u>Hopping Estates</u>				Date	Time									
Lab ID	MS/MSD	Sample ID												
<u>26</u>		<u>2018-7 B147 (0-2)</u>		<u>9/4</u>	<u>1300</u>	<u>6</u>	<u>50</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>27</u>		<u>B146 (0-2)</u>			<u>1310</u>									
<u>28</u>		<u>B145 (0-2)</u>			<u>1315</u>									
<u>29</u>		<u>B144</u>			<u>1320</u>									
<u>30</u>		<u>B143</u>			<u>1325</u>									
<u>31</u>		<u>B142</u>			<u>1340</u>									
<u>32</u>		<u>B140</u>			<u>1345</u>									
<u>33</u>		<u>B140 Duplicate</u>			<u>1350</u>									<u>1380</u>
<u>34</u>		<u>B139</u>			<u>1400</u>									<u>1355</u>
<u>35</u>		<u>B138</u>			<u>1420</u>									

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company <u>TERRACON</u> Date <u>9/4/15</u> Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>9/4/15</u> Time <u>1600</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>9/4/15</u> Time <u>1855</u>	Received By <u>[Signature]</u> Company <u>TA-EST</u> Date <u>9/4/15</u> Time <u>2100</u>	Shipped _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments  
SAME SEE PG. 1

Lab Comments:  
 \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100874-7

**Login Number: 100874**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100839-1

**Login Number: 100839**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3,3.6,3.0,4.0,3.3,3.1,2.7,2.5,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100875-1  
Client Project/Site: IDOT - Hoffman Estates - WO 08

For:  
Terracon Consulting Eng & Scientists  
135 Ambassador Drive  
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/17/2015 4:13:00 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Job ID: 500-100875-1**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative  
500-100875-1**

### Comments

No additional comments.

### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

### Receipt Exceptions

Received sample 20 not on COC, added to COC and logged in.

### GC/MS VOA

Method(s) 5035:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.030		0.021	0.0041	mg/Kg	1	*	*	8260B	Total/NA
2-Butanone (MEK)	0.0076		0.0053	0.0019	mg/Kg	1	*	*	8260B	Total/NA
Benzo[a]anthracene	0.042		0.040	0.0054	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]pyrene	0.047		0.040	0.0078	mg/Kg	1	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.081	F1	0.040	0.0087	mg/Kg	1	*	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.040	0.013	mg/Kg	1	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J F1	0.040	0.012	mg/Kg	1	*	*	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.16	J F1	0.20	0.074	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.062		0.040	0.011	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.084		0.040	0.0075	mg/Kg	1	*	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.040	0.010	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.048		0.040	0.0056	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.078	F1	0.040	0.0080	mg/Kg	1	*	*	8270D	Total/NA
Antimony	0.48	J F1	1.2	0.24	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	14	F1	0.58	0.27	mg/Kg	1	*	*	6010B	Total/NA
Barium	63		0.58	0.11	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.54		0.23	0.050	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.77	B F1	0.12	0.034	mg/Kg	1	*	*	6010B	Total/NA
Chromium	13		0.58	0.10	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	8.3		0.29	0.066	mg/Kg	1	*	*	6010B	Total/NA
Copper	22	F1	0.58	0.13	mg/Kg	1	*	*	6010B	Total/NA
Iron	22000	F2	12	4.5	mg/Kg	1	*	*	6010B	Total/NA
Lead	180	F2	0.29	0.14	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	24000		5.8	2.4	mg/Kg	1	*	*	6010B	Total/NA
Calcium	44000	B F2	58	19	mg/Kg	5	*	*	6010B	Total/NA
Manganese	270	F2	0.58	0.11	mg/Kg	1	*	*	6010B	Total/NA
Nickel	20		0.58	0.16	mg/Kg	1	*	*	6010B	Total/NA
Selenium	0.62	F1	0.58	0.29	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	22		0.29	0.085	mg/Kg	1	*	*	6010B	Total/NA
Zinc	90	F1 F2	5.8	1.8	mg/Kg	5	*	*	6010B	Total/NA
Potassium	1300	F1	29	4.7	mg/Kg	1	*	*	6010B	Total/NA
Sodium	3000	B	58	7.7	mg/Kg	1	*	*	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	200		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.24		0.20	0.20	mg/L	1			6010B	TCLP
Lead	0.023		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	93		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	6.5		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	8.1	F1	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.22		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.073		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.65		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0056		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	27		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.053		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.16		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B156 (0-2) (Continued)

## Lab Sample ID: 500-100875-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.52		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.87		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.054		0.018	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.50		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B155 (0-2)

## Lab Sample ID: 500-100875-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.023	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.041		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.034	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.046		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.026	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.045		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.54	B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.9		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	150		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	2600	B	61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.030		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B155 (0-2) (Continued)

## Lab Sample ID: 500-100875-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	19		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.046		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.8		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.6		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.12		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.050		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.02		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B155 DUP (0-2)

## Lab Sample ID: 500-100875-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.032	J	0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.062		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.046		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.060		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.033	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.053		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.62	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	20		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.62	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	34000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	41		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	570		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.048	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.58		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0043		0.0040	0.0040	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B155 DUP (0-2) (Continued)

## Lab Sample ID: 500-100875-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.36		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.62		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.061		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.38		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B154 (0-2)

## Lab Sample ID: 500-100875-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.034		0.019	0.0036	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0085		0.0047	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0088	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.026	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.28		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.42		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.31		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.19		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.50		0.18	0.066	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.31		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.063		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.31		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.23		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0082	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.21		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.80		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.4		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.53	B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	77		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	72000	B	53	17	mg/Kg	5	☼	6010B	Total/NA
Manganese	490		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B154 (0-2) (Continued)**

**Lab Sample ID: 500-100875-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	27		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		5.3	1.7	mg/Kg	5	☼	6010B	Total/NA
Potassium	1600		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400	B	53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.074		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	24		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.36		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.49		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	6.6		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.036		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.72		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.029	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.033	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.057		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.025	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.041		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.055		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.056		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.85	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.85	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B153 (0-2) (Continued)**

**Lab Sample ID: 500-100875-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	19		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	220		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	57	18	mg/Kg	5	☼	6010B	Total/NA
Manganese	500		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		5.7	1.8	mg/Kg	5	☼	6010B	Total/NA
Potassium	1100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.025	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.062		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.069		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	60		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	7.4		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.37		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.34		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021		0.019	0.0038	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.012	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0079	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.022	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.45		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.31		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.043		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.29		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B152 (0-2) (Continued)**

**Lab Sample ID: 500-100875-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.013	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0092	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.19		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.50		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.52	B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	55		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7100		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	930		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400	B	61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	210		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.072		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.24		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.073		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.69		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0062		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	1.1		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.74		0.10	0.020	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B152 (0-2) (Continued)

## Lab Sample ID: 500-100875-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.055		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.46		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B151 (0-2)

## Lab Sample ID: 500-100875-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	140		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	3300	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	840		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.79		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	49		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.47		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	11		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.42		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	31		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.7		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.81		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.026		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	5.2		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.21		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.024		0.021	0.0072	mg/Kg	1	☼	7471B	Total/NA
pH	7.89		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B150 (0-2)

## Lab Sample ID: 500-100875-8

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B150 (0-2) (Continued)**

**Lab Sample ID: 500-100875-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.022	J	0.033	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.15		0.033	0.0045	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.16		0.033	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.29		0.033	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.087		0.033	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.033	0.0099	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.20		0.033	0.0092	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.033	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.22		0.033	0.0062	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.087		0.033	0.0087	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.033	0.0047	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.41		0.033	0.0067	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.7		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.22		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.53	B	0.11	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.3		0.53	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	10000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	68		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	78000		26	11	mg/Kg	5	☼	6010B	Total/NA
Calcium	130000	B	53	17	mg/Kg	5	☼	6010B	Total/NA
Manganese	300		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.9		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.4		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		5.3	1.7	mg/Kg	5	☼	6010B	Total/NA
Potassium	670		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	800	B	53	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		2.5	0.50	mg/L	1		6010B	TCLP
Lead	0.033		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.10		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	7.8		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.22		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	9.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.0		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.14		0.10	0.020	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B150 (0-2) (Continued)

## Lab Sample ID: 500-100875-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.016		0.015	0.0054	mg/Kg	1	☼	7471B	Total/NA
pH	9.30		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B149 (0-2)

## Lab Sample ID: 500-100875-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.42	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.37	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	83		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.090	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.083		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.69		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0076		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.060		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.27		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.60		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0039		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.028		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.26		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.27	J	1.2	0.25	mg/Kg	1		☼	6010B	Total/NA
Arsenic	11		0.59	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	79		0.59	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.84		0.24	0.051	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.33	B	0.12	0.034	mg/Kg	1		☼	6010B	Total/NA
Chromium	22		0.59	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	16		0.30	0.067	mg/Kg	1		☼	6010B	Total/NA
Copper	29		0.59	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1		☼	6010B	Total/NA
Lead	22		0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	5200		5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	3200	B	12	3.8	mg/Kg	1		☼	6010B	Total/NA
Manganese	240		0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	38		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.60		0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	29		0.30	0.086	mg/Kg	1		☼	6010B	Total/NA
Zinc	65		1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	1900		30	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	1800	B	59	7.8	mg/Kg	1		☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	180		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.64		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.45		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.087		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.89		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0087		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	26		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.087		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.26		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	220		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	38		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	2.6		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.25		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	31		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.63		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0040		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.041		0.019	0.0065	mg/Kg	1		☼	7471B	Total/NA
pH	7.75		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B07 (0-2) (Continued)**

**Lab Sample ID: 500-100875-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0090	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0081	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0081	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.57	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	98		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.56	B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	44000	B	60	19	mg/Kg	5	☼	6010B	Total/NA
Manganese	780		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		6.0	1.9	mg/Kg	5	☼	6010B	Total/NA
Potassium	1000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	B	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.095	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.062		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	32		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.41		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.027		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	5.8		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.20		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.050		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.019	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.14		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.26		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B06 (0-2) (Continued)**

**Lab Sample ID: 500-100875-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.073		0.039	0.013	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.10		0.039	0.011	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.20		0.039	0.011	mg/Kg	1		☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.027	J	0.039	0.0075	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.17		0.039	0.0072	mg/Kg	1		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.072		0.039	0.010	mg/Kg	1		☼	8270D	Total/NA
2-Methylnaphthalene	0.0088	J	0.039	0.0072	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.12		0.039	0.0054	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.31		0.039	0.0077	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.66	J	1.2	0.25	mg/Kg	1		☼	6010B	Total/NA
Arsenic	11		0.60	0.28	mg/Kg	1		☼	6010B	Total/NA
Barium	54		0.60	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.39		0.24	0.052	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.61	B	0.12	0.035	mg/Kg	1		☼	6010B	Total/NA
Chromium	10		0.60	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	7.1		0.30	0.068	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.60	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	18000		12	4.6	mg/Kg	1		☼	6010B	Total/NA
Lead	220		0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	39000		6.0	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	72000	B	60	19	mg/Kg	5		☼	6010B	Total/NA
Manganese	470		0.60	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	17		0.60	0.16	mg/Kg	1		☼	6010B	Total/NA
Vanadium	17		0.30	0.088	mg/Kg	1		☼	6010B	Total/NA
Zinc	84		6.0	1.9	mg/Kg	5		☼	6010B	Total/NA
Potassium	930		30	4.9	mg/Kg	1		☼	6010B	Total/NA
Sodium	1300	B	60	7.9	mg/Kg	1		☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	280		2.5	0.50	mg/L	1			6010B	TCLP
Lead	0.017		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.38		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.012	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.25	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	19		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.050		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.011	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.063		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	43		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.50		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.53		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.039		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	8.1		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.065		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.34		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.051		0.017	0.0061	mg/Kg	1		☼	7471B	Total/NA
pH	8.65		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.35	J	1.2	0.25	mg/Kg	1		☼	6010B	Total/NA
Arsenic	8.9		0.60	0.28	mg/Kg	1		☼	6010B	Total/NA
Barium	85		0.60	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.65		0.24	0.052	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.35	B	0.12	0.034	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.60	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.30	0.067	mg/Kg	1		☼	6010B	Total/NA
Copper	13		0.60	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1		☼	6010B	Total/NA
Lead	19		0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	5300		6.0	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	6700	B	12	3.8	mg/Kg	1		☼	6010B	Total/NA
Manganese	620		0.60	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	26		0.60	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.51	J	0.60	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	26		0.30	0.087	mg/Kg	1		☼	6010B	Total/NA
Zinc	50		1.2	0.38	mg/Kg	1		☼	6010B	Total/NA
Potassium	990		30	4.9	mg/Kg	1		☼	6010B	Total/NA
Sodium	1800	B	60	7.9	mg/Kg	1		☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	250		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.091	J	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.054		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.70		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0062		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	28		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.028		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.098		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.072		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.46		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0020		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.027		0.020	0.0069	mg/Kg	1		☼	7471B	Total/NA
pH	8.42		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	9.2		0.59	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	89		0.59	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.63		0.24	0.051	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 DUP (0-2) (Continued)**

**Lab Sample ID: 500-100875-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.37	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	29		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6800		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	9600	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	690		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.24		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.067		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.80		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0072		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.58		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0024		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.044		0.021	0.0074	mg/Kg	1	☼	7471B	Total/NA
pH	8.31		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.021	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.040		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.037	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.024	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B04 (0-2) (Continued)**

**Lab Sample ID: 500-100875-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.041		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.76	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	95		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	50000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.71		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.021	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	9.8		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	64		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.073		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	8.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.039		0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.021	0.0040	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.011	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.061		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B03 (0-2) (Continued)**

**Lab Sample ID: 500-100875-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.090		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.080		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.059		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.099		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.074		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.011	J	0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0083	J	0.041	0.0063	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.078		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.22		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46	B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	72		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.65		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	B	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.79		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	250		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.038		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	91		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.25		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.024	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	57		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.24		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	13		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B03 (0-2) (Continued)

## Lab Sample ID: 500-100875-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	8.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.22		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.033		0.021	0.0073	mg/Kg	1	☼	7471B	Total/NA
pH	7.92		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B01 (0-2)

## Lab Sample ID: 500-100875-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0062	J	0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.025	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.025	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.039		0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.032	J	0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.035		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.035	0.0090	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0083	J	0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.069		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.24		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.2		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	63000		28	11	mg/Kg	5	☼	6010B	Total/NA
Calcium	110000	B	55	18	mg/Kg	5	☼	6010B	Total/NA
Manganese	380		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	790		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	620	B	55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.019	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	21		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B01 (0-2) (Continued)

## Lab Sample ID: 500-100875-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.050		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.065		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	49		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.75		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	7.0		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.086		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.29		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.0098	J	0.016	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	9.22		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B158 (0-2)

## Lab Sample ID: 500-100875-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.078		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.40		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.54		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.83		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.42		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.34		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.46		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.078		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.63		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.37		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.35		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.0		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.3		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.32		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.4		0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	57	18	mg/Kg	5	☼	6010B	Total/NA
Manganese	290		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	790		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500	B	57	7.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Client Sample ID: 2618-7-B158 (0-2) (Continued)

## Lab Sample ID: 500-100875-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.023	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.077		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	69		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.80		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	8.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.34		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	9.04		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-7-B157 (0-2)

## Lab Sample ID: 500-100875-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.030	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.011	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.13		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.46		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.46		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.80		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.36		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.30		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.11	J	0.20	0.073	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.55		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.079		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.77		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.041		0.039	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.36		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0088	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.64		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.6		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	68		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.52	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B157 (0-2) (Continued)**

**Lab Sample ID: 500-100875-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	9.0		0.29	0.067	mg/Kg	1		☼	6010B	Total/NA
Copper	24		0.59	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	46		0.29	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	28000		5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	50000	B	59	19	mg/Kg	5		☼	6010B	Total/NA
Manganese	360		0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	21		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.58	J	0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.29	0.086	mg/Kg	1		☼	6010B	Total/NA
Zinc	81		1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	1200		29	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	1900	B	59	7.8	mg/Kg	1		☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	310		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	5.3		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.12		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.018	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.31	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	25		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.057		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.015	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.058		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	65		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.079		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	14		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.47		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.039		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	8.1		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.084		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.25		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.019	J	0.020	0.0069	mg/Kg	1		☼	7471B	Total/NA
pH	8.52		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.021		0.020	0.0038	mg/Kg	1		☼	8260B	Total/NA
Benzo[a]anthracene	0.018	J	0.038	0.0051	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.038	0.0073	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.038		0.038	0.0082	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.026	J	0.038	0.010	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.036	J	0.038	0.0070	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.044		0.038	0.0075	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	8.2		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	35		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B141 (0-2) (Continued)**

**Lab Sample ID: 500-100875-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.54		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.9		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	57	18	mg/Kg	5	☼	6010B	Total/NA
Manganese	340		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	800	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	960		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.060		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.026		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	310		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0051		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.28		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.62		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0024		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100875-1	2618-7-B156 (0-2)	Solid	09/04/15 11:30	09/04/15 21:00
500-100875-2	2618-7-B155 (0-2)	Solid	09/04/15 11:35	09/04/15 21:00
500-100875-3	2618-7-B155 DUP (0-2)	Solid	09/04/15 11:40	09/04/15 21:00
500-100875-4	2618-7-B154 (0-2)	Solid	09/04/15 11:50	09/04/15 21:00
500-100875-5	2618-7-B153 (0-2)	Solid	09/04/15 12:00	09/04/15 21:00
500-100875-6	2618-7-B152 (0-2)	Solid	09/04/15 12:05	09/04/15 21:00
500-100875-7	2618-7-B151 (0-2)	Solid	09/04/15 12:10	09/04/15 21:00
500-100875-8	2618-7-B150 (0-2)	Solid	09/04/15 12:20	09/04/15 21:00
500-100875-9	2618-7-B149 (0-2)	Solid	09/04/15 12:30	09/04/15 21:00
500-100875-10	2618-7-B148 (0-2)	Solid	09/04/15 12:55	09/04/15 21:00
500-100875-11	2618-7-B07 (0-2)	Solid	09/04/15 07:40	09/04/15 21:00
500-100875-12	2618-7-B06 (0-2)	Solid	09/04/15 07:50	09/04/15 21:00
500-100875-13	2618-7-B05 (0-2)	Solid	09/04/15 08:00	09/04/15 21:00
500-100875-14	2618-7-B05 DUP (0-2)	Solid	09/04/15 08:05	09/04/15 21:00
500-100875-15	2618-7-B04 (0-2)	Solid	09/04/15 08:20	09/04/15 21:00
500-100875-16	2618-7-B03 (0-2)	Solid	09/04/15 08:25	09/04/15 21:00
500-100875-17	2618-7-B01 (0-2)	Solid	09/04/15 08:40	09/04/15 21:00
500-100875-18	2618-7-B158 (0-2)	Solid	09/04/15 11:15	09/04/15 21:00
500-100875-19	2618-7-B157 (0-2)	Solid	09/04/15 11:25	09/04/15 21:00
500-100875-20	2618-7-B141 (0-2)	Solid	09/04/15 13:45	09/04/15 21:00



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.030</b>		0.021	0.0041	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Bromodichloromethane	<0.0053		0.0053	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
<b>2-Butanone (MEK)</b>	<b>0.0076</b>		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/11/15 19:54	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/11/15 19:54	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	09/04/15 22:30	09/11/15 19:54	1
Toluene-d8 (Surr)	117		75 - 122	09/04/15 22:30	09/11/15 19:54	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
<b>Benzo[a]anthracene</b>	<b>0.042</b>		0.040	0.0054	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.047		0.040	0.0078	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Benzo[b]fluoranthene	0.081	F1	0.040	0.0087	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Benzo[g,h,i]perylene	0.024	J	0.040	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Benzo[k]fluoranthene	0.033	J F1	0.040	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Bis(2-ethylhexyl) phthalate	0.16	J F1	0.20	0.074	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.077	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Chrysene	0.062		0.040	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
4,6-Dinitro-2-methylphenol	<0.81	F1	0.81	0.32	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Di-n-octyl phthalate	<0.20	F1	0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Fluoranthene	0.084		0.040	0.0075	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Hexachlorocyclopentadiene	<0.81	F1	0.81	0.23	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.040	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Pentachlorophenol	<0.81	F2	0.81	0.65	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
<b>Phenanthrene</b>	<b>0.048</b>		0.040	0.0056	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
<b>Pyrene</b>	<b>0.078</b>	<b>F1</b>	0.040	0.0080	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		25 - 119	09/11/15 07:33	09/15/15 15:06	1
2-Fluorophenol	95		25 - 110	09/11/15 07:33	09/15/15 15:06	1
Nitrobenzene-d5	84		25 - 115	09/11/15 07:33	09/15/15 15:06	1
Phenol-d5	89		31 - 110	09/11/15 07:33	09/15/15 15:06	1
Terphenyl-d14	99		36 - 134	09/11/15 07:33	09/15/15 15:06	1
2,4,6-Tribromophenol	97		35 - 137	09/11/15 07:33	09/15/15 15:06	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J F1</b>	1.2	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Arsenic</b>	<b>14</b>	<b>F1</b>	0.58	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Barium</b>	<b>63</b>		0.58	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Beryllium</b>	<b>0.54</b>		0.23	0.050	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Cadmium</b>	<b>0.77</b>	<b>B F1</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Chromium</b>	<b>13</b>		0.58	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Cobalt</b>	<b>8.3</b>		0.29	0.066	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Copper</b>	<b>22</b>	<b>F1</b>	0.58	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Iron</b>	<b>22000</b>	<b>F2</b>	12	4.5	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Lead</b>	<b>180</b>	<b>F2</b>	0.29	0.14	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Magnesium</b>	<b>24000</b>		5.8	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Calcium</b>	<b>44000</b>	<b>B F2</b>	58	19	mg/Kg	☼	09/11/15 08:45	09/15/15 04:31	5
<b>Manganese</b>	<b>270</b>	<b>F2</b>	0.58	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Nickel</b>	<b>20</b>		0.58	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Selenium</b>	<b>0.62</b>	<b>F1</b>	0.58	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Vanadium</b>	<b>22</b>		0.29	0.085	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Zinc</b>	<b>90</b>	<b>F1 F2</b>	5.8	1.8	mg/Kg	☼	09/11/15 08:45	09/15/15 04:31	5
<b>Potassium</b>	<b>1300</b>	<b>F1</b>	29	4.7	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1
<b>Sodium</b>	<b>3000</b>	<b>B</b>	58	7.7	mg/Kg	☼	09/11/15 08:45	09/12/15 01:59	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 22:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 22:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>200</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 22:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Cobalt</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Iron</b>	<b>0.24</b>		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Lead</b>	<b>0.023</b>		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Magnesium</b>	<b>93</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Manganese</b>	<b>6.5</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Potassium</b>	<b>8.1</b>	<b>F1</b>	2.5	0.50	mg/L		09/16/15 10:30	09/16/15 22:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 22:34	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:34	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 22:34	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.073</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Beryllium</b>	<b>0.0056</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 15:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Calcium</b>	<b>27</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Cobalt</b>	<b>0.053</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Copper</b>	<b>0.16</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Lead</b>	<b>0.52</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Magnesium</b>	<b>24</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Potassium</b>	<b>19</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 15:22	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:22	1
<b>Zinc</b>	<b>0.87</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 15:22	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:02	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 09:57	1
<b>Thallium</b>	<b>0.0025</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 09:57	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

Date Collected: 09/04/15 11:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 81.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:02	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.018	0.0065	mg/Kg	☼	09/11/15 17:00	09/14/15 14:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/14/15 20:55	09/14/15 22:57	1
pH	8.50		0.200	0.200	SU			09/10/15 21:14	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 (0-2)**

**Lab Sample ID: 500-100875-2**

**Date Collected: 09/04/15 11:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Benzene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Bromodichloromethane	<0.0052		0.0052	0.00087	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
2-Butanone (MEK)	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Dibromochloromethane	<0.0052		0.0052	0.00059	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,2-Dichloroethane	<0.0052		0.0052	0.00076	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,2-Dichloropropane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/11/15 20:19	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/11/15 20:19	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 22:30	09/11/15 20:19	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/11/15 20:19	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
<b>Benzo[a]anthracene</b>	<b>0.023</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 (0-2)**

**Lab Sample ID: 500-100875-2**

**Date Collected: 09/04/15 11:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.024</b>	<b>J</b>	0.040	0.0077	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
<b>Benzo[b]fluoranthene</b>	<b>0.041</b>		0.040	0.0086	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
<b>Chrysene</b>	<b>0.034</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
<b>Fluoranthene</b>	<b>0.046</b>		0.040	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 (0-2)**

**Lab Sample ID: 500-100875-2**

Date Collected: 09/04/15 11:35

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 80.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
<b>Phenanthrene</b>	<b>0.026</b>	<b>J</b>	0.040	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
<b>Pyrene</b>	<b>0.045</b>		0.040	0.0079	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		25 - 119	09/11/15 07:33	09/15/15 15:32	1
2-Fluorophenol	94		25 - 110	09/11/15 07:33	09/15/15 15:32	1
Nitrobenzene-d5	82		25 - 115	09/11/15 07:33	09/15/15 15:32	1
Phenol-d5	93		31 - 110	09/11/15 07:33	09/15/15 15:32	1
Terphenyl-d14	93		36 - 134	09/11/15 07:33	09/15/15 15:32	1
2,4,6-Tribromophenol	71		35 - 137	09/11/15 07:33	09/15/15 15:32	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Arsenic</b>	<b>9.3</b>		0.61	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Barium</b>	<b>62</b>		0.61	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.053	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Cadmium</b>	<b>0.54</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Chromium</b>	<b>13</b>		0.61	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Cobalt</b>	<b>7.9</b>		0.31	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Copper</b>	<b>21</b>		0.61	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Iron</b>	<b>18000</b>		12	4.7	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Lead</b>	<b>150</b>		0.31	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Magnesium</b>	<b>16000</b>		6.1	2.5	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Calcium</b>	<b>25000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Manganese</b>	<b>260</b>		0.61	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Nickel</b>	<b>21</b>		0.61	0.17	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Vanadium</b>	<b>24</b>		0.31	0.089	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Zinc</b>	<b>71</b>		1.2	0.39	mg/Kg	☼	09/11/15 08:45	09/15/15 05:20	1
<b>Potassium</b>	<b>1300</b>		31	5.0	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1
<b>Sodium</b>	<b>2600</b>	<b>B</b>	61	8.1	mg/Kg	☼	09/11/15 08:45	09/12/15 02:23	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 23:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 23:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 23:02	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 (0-2)**

**Lab Sample ID: 500-100875-2**

**Date Collected: 09/04/15 11:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 23:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 23:02	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:02	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
<b>Potassium</b>	<b>4.1</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 23:02	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:02	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 23:02	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 15:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 15:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Calcium</b>	<b>18</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Chromium</b>	<b>0.025</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Copper</b>	<b>0.030</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Iron</b>	<b>19</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Lead</b>	<b>0.046</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Magnesium</b>	<b>7.8</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Potassium</b>	<b>4.6</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 15:49	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Vanadium</b>	<b>0.042</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:49	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 15:49	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:10	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:07	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 (0-2)**

**Lab Sample ID: 500-100875-2**

**Date Collected: 09/04/15 11:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:04	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0067	mg/Kg	☼	09/11/15 17:00	09/14/15 15:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	09/14/15 20:55	09/14/15 22:57	1
pH	8.02		0.200	0.200	SU			09/10/15 21:18	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 DUP (0-2)**

**Lab Sample ID: 500-100875-3**

**Date Collected: 09/04/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0045	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Benzene	<0.0058		0.0058	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Bromodichloromethane	<0.0058		0.0058	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Bromoform	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Bromomethane	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Carbon disulfide	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Carbon tetrachloride	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Chlorobenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Chloroethane	<0.0058		0.0058	0.0024	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Chloroform	<0.0058		0.0058	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Chloromethane	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Dibromochloromethane	<0.0058		0.0058	0.00067	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,1-Dichloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,1-Dichloroethene	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,2-Dichloropropane	<0.0058		0.0058	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Ethylbenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Methylene Chloride	<0.0058		0.0058	0.0044	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Methyl tert-butyl ether	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Styrene	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Tetrachloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Toluene	<0.0058		0.0058	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Trichloroethene	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Vinyl acetate	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Vinyl chloride	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1
Xylenes, Total	<0.012		0.012	0.0022	mg/Kg	☼	09/04/15 22:30	09/11/15 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 122	09/04/15 22:30	09/11/15 20:44	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/11/15 20:44	1
1,2-Dichloroethane-d4 (Surr)	127		70 - 134	09/04/15 22:30	09/11/15 20:44	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 20:44	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Benzo[a]anthracene</b>	<b>0.032</b>	<b>J</b>	0.041	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 DUP (0-2)**

**Lab Sample ID: 500-100875-3**

**Date Collected: 09/04/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.034</b>	<b>J</b>	0.041	0.0080	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Benzo[b]fluoranthene</b>	<b>0.062</b>		0.041	0.0089	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Benzo[k]fluoranthene</b>	<b>0.024</b>	<b>J</b>	0.041	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Chrysene</b>	<b>0.046</b>		0.041	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Fluoranthene</b>	<b>0.060</b>		0.041	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 DUP (0-2)**

**Lab Sample ID: 500-100875-3**

Date Collected: 09/04/15 11:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Phenanthrene</b>	<b>0.033</b>	<b>J</b>	0.041	0.0057	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Pyrene</b>	<b>0.053</b>		0.041	0.0082	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 15:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	90		25 - 119				09/11/15 07:33	09/15/15 15:58	1
2-Fluorophenol	90		25 - 110				09/11/15 07:33	09/15/15 15:58	1
Nitrobenzene-d5	82		25 - 115				09/11/15 07:33	09/15/15 15:58	1
Phenol-d5	86		31 - 110				09/11/15 07:33	09/15/15 15:58	1
Terphenyl-d14	92		36 - 134				09/11/15 07:33	09/15/15 15:58	1
2,4,6-Tribromophenol	57		35 - 137				09/11/15 07:33	09/15/15 15:58	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.62</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Arsenic</b>	<b>20</b>		0.59	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Barium</b>	<b>78</b>		0.59	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Beryllium</b>	<b>0.64</b>		0.24	0.051	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Cadmium</b>	<b>0.62</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Chromium</b>	<b>14</b>		0.59	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Cobalt</b>	<b>12</b>		0.30	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Copper</b>	<b>23</b>		0.59	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Iron</b>	<b>34000</b>		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Lead</b>	<b>41</b>		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Magnesium</b>	<b>10000</b>		5.9	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Calcium</b>	<b>15000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Manganese</b>	<b>570</b>		0.59	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Nickel</b>	<b>34</b>		0.59	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Selenium</b>	<b>0.57</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Vanadium</b>	<b>26</b>		0.30	0.086	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Zinc</b>	<b>72</b>		1.2	0.37	mg/Kg	☼	09/11/15 08:45	09/15/15 05:27	1
<b>Potassium</b>	<b>1000</b>		30	4.8	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1
<b>Sodium</b>	<b>2400</b>	<b>B</b>	59	7.8	mg/Kg	☼	09/11/15 08:45	09/12/15 02:27	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 23:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 23:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 23:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 DUP (0-2)**

**Lab Sample ID: 500-100875-3**

**Date Collected: 09/04/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>250</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 23:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 23:08	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:08	1
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
<b>Potassium</b>	<b>4.0</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 23:08	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:08	1
<b>Zinc</b>	<b>0.17</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 23:08	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.048</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Beryllium</b>	<b>0.0043</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 15:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Calcium</b>	<b>24</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Chromium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Copper</b>	<b>0.26</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Lead</b>	<b>0.36</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Magnesium</b>	<b>21</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:56	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 15:56	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Vanadium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:56	1
<b>Zinc</b>	<b>0.62</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 15:56	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:11	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:09	1
<b>Thallium</b>	<b>0.0022</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:09	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 DUP (0-2)**

**Lab Sample ID: 500-100875-3**

Date Collected: 09/04/15 11:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:10	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 15:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	09/14/15 20:55	09/14/15 22:58	1
pH	8.38		0.200	0.200	SU			09/10/15 21:22	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B154 (0-2)**

**Lab Sample ID: 500-100875-4**

**Date Collected: 09/04/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.034</b>		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
<b>2-Butanone (MEK)</b>	<b>0.0085</b>		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/14/15 11:25	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/14/15 11:25	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/14/15 11:25	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/14/15 11:25	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.0088</b>	<b>J</b>	0.036	0.0065	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
<b>Anthracene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0061	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
<b>Benzo[a]anthracene</b>	<b>0.22</b>		0.036	0.0049	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B154 (0-2)**

**Lab Sample ID: 500-100875-4**

**Date Collected: 09/04/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.28		0.036	0.0070	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Benzo[b]fluoranthene	0.42		0.036	0.0078	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Benzo[g,h,i]perylene	0.31		0.036	0.012	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Benzo[k]fluoranthene	0.19		0.036	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Bis(2-ethylhexyl) phthalate	0.50		0.18	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Chrysene	0.31		0.036	0.0099	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Dibenz(a,h)anthracene	0.063		0.036	0.0070	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Fluoranthene	0.31		0.036	0.0067	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Fluorene	0.010 J		0.036	0.0051	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Indeno[1,2,3-cd]pyrene	0.23		0.036	0.0094	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2-Methylnaphthalene	0.0082 J		0.036	0.0067	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B154 (0-2)**

**Lab Sample ID: 500-100875-4**

**Date Collected: 09/04/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
<b>Phenanthrene</b>	<b>0.21</b>		0.036	0.0051	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
<b>Pyrene</b>	<b>0.80</b>		0.036	0.0072	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	111		25 - 119	09/11/15 07:33	09/16/15 19:29	1
2-Fluorophenol	109		25 - 110	09/11/15 07:33	09/16/15 19:29	1
Nitrobenzene-d5	102		25 - 115	09/11/15 07:33	09/16/15 19:29	1
Phenol-d5	113	X	31 - 110	09/11/15 07:33	09/16/15 19:29	1
Terphenyl-d14	237	X	36 - 134	09/11/15 07:33	09/16/15 19:29	1
2,4,6-Tribromophenol	99		35 - 137	09/11/15 07:33	09/16/15 19:29	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Arsenic</b>	<b>9.4</b>		0.53	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Barium</b>	<b>46</b>		0.53	0.097	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Beryllium</b>	<b>0.51</b>		0.21	0.046	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Cadmium</b>	<b>0.53</b>	<b>B</b>	0.11	0.031	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Chromium</b>	<b>15</b>		0.53	0.091	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Cobalt</b>	<b>10</b>		0.27	0.060	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Copper</b>	<b>23</b>		0.53	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Iron</b>	<b>19000</b>		11	4.1	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Lead</b>	<b>77</b>		0.27	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Magnesium</b>	<b>36000</b>		5.3	2.2	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Calcium</b>	<b>72000</b>	<b>B</b>	53	17	mg/Kg	☼	09/11/15 08:45	09/15/15 05:34	5
<b>Manganese</b>	<b>490</b>		0.53	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Nickel</b>	<b>27</b>		0.53	0.14	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Selenium</b>	<b>0.53</b>		0.53	0.26	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Vanadium</b>	<b>19</b>		0.27	0.078	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Zinc</b>	<b>83</b>		5.3	1.7	mg/Kg	☼	09/11/15 08:45	09/15/15 05:34	5
<b>Potassium</b>	<b>1600</b>		27	4.3	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1
<b>Sodium</b>	<b>1400</b>	<b>B</b>	53	7.0	mg/Kg	☼	09/11/15 08:45	09/12/15 02:39	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 23:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Cadmium</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 23:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B154 (0-2)**

**Lab Sample ID: 500-100875-4**

**Date Collected: 09/04/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>270</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:15	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Lead</b>	<b>0.074</b>		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Manganese</b>	<b>4.2</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Potassium</b>	<b>4.4</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 23:15	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:15	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 23:15	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 16:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 16:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Calcium</b>	<b>23</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Chromium</b>	<b>0.028</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Copper</b>	<b>0.052</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Iron</b>	<b>24</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Lead</b>	<b>0.36</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Manganese</b>	<b>0.49</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Nickel</b>	<b>0.032</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Potassium</b>	<b>6.6</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 16:02	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Vanadium</b>	<b>0.041</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:02	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 16:02	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:12	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:11	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B154 (0-2)**

**Lab Sample ID: 500-100875-4**

**Date Collected: 09/04/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.1**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:12	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 15:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/14/15 20:55	09/14/15 22:58	1
pH	8.72		0.200	0.200	SU			09/10/15 21:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

Date Collected: 09/04/15 12:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 22:30	09/14/15 11:50	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/14/15 11:50	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/14/15 11:50	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/14/15 11:50	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Benzo[a]anthracene</b>	<b>0.029</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

**Date Collected: 09/04/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.033</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Benzo[b]fluoranthene</b>	<b>0.057</b>		0.038	0.0083	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Benzo[k]fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Chrysene</b>	<b>0.041</b>		0.038	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Fluoranthene</b>	<b>0.055</b>		0.038	0.0071	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

**Date Collected: 09/04/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Phenanthrene</b>	<b>0.034</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Pyrene</b>	<b>0.056</b>		0.038	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 16:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	90		25 - 119				09/11/15 07:33	09/15/15 16:24	1
2-Fluorophenol	89		25 - 110				09/11/15 07:33	09/15/15 16:24	1
Nitrobenzene-d5	84		25 - 115				09/11/15 07:33	09/15/15 16:24	1
Phenol-d5	93		31 - 110				09/11/15 07:33	09/15/15 16:24	1
Terphenyl-d14	95		36 - 134				09/11/15 07:33	09/15/15 16:24	1
2,4,6-Tribromophenol	80		35 - 137				09/11/15 07:33	09/15/15 16:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.85</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Arsenic</b>	<b>10</b>		0.57	0.26	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Barium</b>	<b>62</b>		0.57	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Beryllium</b>	<b>0.44</b>		0.23	0.049	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Cadmium</b>	<b>0.85</b>	<b>B</b>	0.11	0.033	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Chromium</b>	<b>10</b>		0.57	0.098	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Cobalt</b>	<b>7.4</b>		0.28	0.064	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Copper</b>	<b>19</b>		0.57	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Iron</b>	<b>17000</b>		11	4.4	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Lead</b>	<b>220</b>		0.28	0.14	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Magnesium</b>	<b>35000</b>		5.7	2.3	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Calcium</b>	<b>67000</b>	<b>B</b>	57	18	mg/Kg	☼	09/11/15 08:45	09/15/15 05:41	5
<b>Manganese</b>	<b>500</b>		0.57	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Nickel</b>	<b>17</b>		0.57	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Selenium</b>	<b>0.67</b>		0.57	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Vanadium</b>	<b>19</b>		0.28	0.083	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Zinc</b>	<b>100</b>		5.7	1.8	mg/Kg	☼	09/11/15 08:45	09/15/15 05:41	5
<b>Potassium</b>	<b>1100</b>		28	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1
<b>Sodium</b>	<b>2100</b>	<b>B</b>	57	7.5	mg/Kg	☼	09/11/15 08:45	09/12/15 02:44	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 23:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 23:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 23:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

**Date Collected: 09/04/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>230</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 23:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 23:22	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:22	1
<b>Manganese</b>	<b>0.77</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
<b>Potassium</b>	<b>3.1</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 23:22	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:22	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 23:22	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.025</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 16:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 16:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Calcium</b>	<b>10</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Chromium</b>	<b>0.062</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Copper</b>	<b>0.069</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Iron</b>	<b>60</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Magnesium</b>	<b>10</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Nickel</b>	<b>0.051</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Potassium</b>	<b>7.4</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 16:18	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:18	1
<b>Zinc</b>	<b>0.37</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 16:18	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:13	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:12	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:53	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

Date Collected: 09/04/15 12:00

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:14	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0066	mg/Kg	☼	09/11/15 17:00	09/14/15 15:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/14/15 20:55	09/14/15 22:59	1
pH	8.34		0.200	0.200	SU			09/10/15 21:31	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.021</b>		0.019	0.0038	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Chloroform	<0.0048		0.0048	0.00095	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/14/15 12:15	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/14/15 12:15	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 22:30	09/14/15 12:15	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 22:30	09/14/15 12:15	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0069	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Acenaphthylene</b>	<b>0.0079</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Anthracene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0064	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Benzo[a]anthracene</b>	<b>0.20</b>		0.038	0.0052	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.22</b>		0.038	0.0075	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Benzo[b]fluoranthene</b>	<b>0.45</b>		0.038	0.0083	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Benzo[g,h,i]perylene</b>	<b>0.12</b>		0.038	0.012	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Benzo[k]fluoranthene</b>	<b>0.14</b>		0.038	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Chrysene</b>	<b>0.31</b>		0.038	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Dibenz(a,h)anthracene</b>	<b>0.043</b>		0.038	0.0074	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Fluoranthene</b>	<b>0.29</b>		0.038	0.0071	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Fluorene</b>	<b>0.013 J</b>		0.038	0.0054	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.12</b>		0.038	0.010	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>2-Methylnaphthalene</b>	<b>0.016 J</b>		0.038	0.0071	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Naphthalene</b>	<b>0.0092 J</b>		0.038	0.0059	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

Date Collected: 09/04/15 12:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 81.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Phenanthrene</b>	<b>0.19</b>		0.038	0.0054	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
<b>Pyrene</b>	<b>0.50</b>		0.038	0.0077	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		25 - 119	09/11/15 07:33	09/16/15 16:33	1
2-Fluorophenol	100		25 - 110	09/11/15 07:33	09/16/15 16:33	1
Nitrobenzene-d5	93		25 - 115	09/11/15 07:33	09/16/15 16:33	1
Phenol-d5	105		31 - 110	09/11/15 07:33	09/16/15 16:33	1
Terphenyl-d14	172	X	36 - 134	09/11/15 07:33	09/16/15 16:33	1
2,4,6-Tribromophenol	92		35 - 137	09/11/15 07:33	09/16/15 16:33	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.51</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Arsenic</b>	<b>8.0</b>		0.61	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Barium</b>	<b>110</b>		0.61	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Beryllium</b>	<b>0.49</b>		0.24	0.053	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Cadmium</b>	<b>0.52</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Chromium</b>	<b>12</b>		0.61	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Cobalt</b>	<b>6.6</b>		0.31	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Copper</b>	<b>15</b>		0.61	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Iron</b>	<b>16000</b>		12	4.7	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Lead</b>	<b>55</b>		0.31	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Magnesium</b>	<b>7100</b>		6.1	2.5	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Calcium</b>	<b>13000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Manganese</b>	<b>580</b>		0.61	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Nickel</b>	<b>14</b>		0.61	0.17	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Selenium</b>	<b>0.41</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
Silver	<0.31		0.31	0.071	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Vanadium</b>	<b>22</b>		0.31	0.089	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Zinc</b>	<b>70</b>		1.2	0.39	mg/Kg	☼	09/11/15 08:45	09/15/15 05:47	1
<b>Potassium</b>	<b>930</b>		31	5.0	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1
<b>Sodium</b>	<b>2400</b>	<b>B</b>	61	8.1	mg/Kg	☼	09/11/15 08:45	09/12/15 02:49	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 23:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>210</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Lead</b>	<b>0.072</b>		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Magnesium</b>	<b>96</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Manganese</b>	<b>8.5</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Nickel</b>	<b>0.016</b>	J	0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Potassium</b>	<b>4.9</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 23:29	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:29	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 23:29	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.073</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Barium</b>	<b>0.69</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Beryllium</b>	<b>0.0062</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Calcium</b>	<b>23</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Cobalt</b>	<b>0.057</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Lead</b>	<b>1.1</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Potassium</b>	<b>21</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 16:41	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Vanadium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:41	1
<b>Zinc</b>	<b>0.74</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 16:41	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:14	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:14	1
<b>Thallium</b>	<b>0.0033</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:14	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

Date Collected: 09/04/15 12:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 81.7

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 15:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/14/15 20:55	09/14/15 22:59	1
pH	8.46		0.200	0.200	SU			09/10/15 21:36	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B151 (0-2)**

**Lab Sample ID: 500-100875-7**

**Date Collected: 09/04/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 78.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.0047	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Benzene	<0.0061		0.0061	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Bromodichloromethane	<0.0061		0.0061	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Bromoform	<0.0061		0.0061	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Bromomethane	<0.0061		0.0061	0.0022	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
2-Butanone (MEK)	<0.0061		0.0061	0.0022	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Carbon disulfide	<0.0061		0.0061	0.0022	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Carbon tetrachloride	<0.0061		0.0061	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Chlorobenzene	<0.0061		0.0061	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Chloroethane	<0.0061		0.0061	0.0026	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Chloroform	<0.0061		0.0061	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Chloromethane	<0.0061		0.0061	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Dibromochloromethane	<0.0061		0.0061	0.00070	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,1-Dichloroethane	<0.0061		0.0061	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,2-Dichloroethane	<0.0061		0.0061	0.00090	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,1-Dichloroethene	<0.0061		0.0061	0.0022	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,2-Dichloropropane	<0.0061		0.0061	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Ethylbenzene	<0.0061		0.0061	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
2-Hexanone	<0.0061		0.0061	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Methylene Chloride	<0.0061		0.0061	0.0046	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Styrene	<0.0061		0.0061	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,1,2,2-Tetrachloroethane	<0.0061		0.0061	0.00097	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Tetrachloroethene	<0.0061		0.0061	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Toluene	<0.0061		0.0061	0.0021	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Trichloroethene	<0.0061		0.0061	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Vinyl acetate	<0.0061		0.0061	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Vinyl chloride	<0.0061		0.0061	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1
Xylenes, Total	<0.012		0.012	0.0023	mg/Kg	☼	09/04/15 22:30	09/14/15 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	09/04/15 22:30	09/14/15 12:40	1
Dibromofluoromethane	98		75 - 120	09/04/15 22:30	09/14/15 12:40	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/14/15 12:40	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/14/15 12:40	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B151 (0-2)**

**Lab Sample ID: 500-100875-7**

**Date Collected: 09/04/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 78.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B151 (0-2)**

**Lab Sample ID: 500-100875-7**

Date Collected: 09/04/15 12:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 78.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	09/11/15 07:33	09/15/15 01:33	1
2-Fluorophenol	97		25 - 110	09/11/15 07:33	09/15/15 01:33	1
Nitrobenzene-d5	99		25 - 115	09/11/15 07:33	09/15/15 01:33	1
Phenol-d5	98		31 - 110	09/11/15 07:33	09/15/15 01:33	1
Terphenyl-d14	96		36 - 134	09/11/15 07:33	09/15/15 01:33	1
2,4,6-Tribromophenol	69		35 - 137	09/11/15 07:33	09/15/15 01:33	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Arsenic	7.1		0.59	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Barium	140		0.59	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Beryllium	0.61		0.24	0.051	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Cadmium	0.32	B	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Chromium	14		0.59	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Cobalt	11		0.30	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Copper	12		0.59	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Iron	17000		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Lead	17		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Magnesium	2200		5.9	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Calcium	3300	B	12	3.8	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Manganese	840		0.59	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Nickel	16		0.59	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Selenium	0.79		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Vanadium	28		0.30	0.087	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Zinc	52		1.2	0.38	mg/Kg	☼	09/11/15 08:45	09/15/15 05:54	1
Potassium	1000		30	4.8	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1
Sodium	1900	B	59	7.8	mg/Kg	☼	09/11/15 08:45	09/12/15 02:53	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
Barium	0.40	J	0.50	0.050	mg/L		09/16/15 10:30	09/16/15 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 23:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 23:51	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B151 (0-2)**

**Lab Sample ID: 500-100875-7**

**Date Collected: 09/04/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 78.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>49</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:51	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
<b>Iron</b>	<b>0.47</b>		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 23:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 23:51	1
<b>Magnesium</b>	<b>11</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:51	1
<b>Manganese</b>	<b>0.040</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
<b>Potassium</b>	<b>2.8</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 23:51	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:51	1
<b>Zinc</b>	<b>0.42</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 23:51	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 16:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 16:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Calcium</b>	<b>15</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Chromium</b>	<b>0.040</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Copper</b>	<b>0.032</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Iron</b>	<b>31</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Lead</b>	<b>0.021</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Magnesium</b>	<b>7.7</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Manganese</b>	<b>0.81</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Potassium</b>	<b>5.2</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 16:48	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Vanadium</b>	<b>0.064</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:48	1
<b>Zinc</b>	<b>0.21</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 16:48	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:15	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:15	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B151 (0-2)**

**Lab Sample ID: 500-100875-7**

Date Collected: 09/04/15 12:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 78.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.021	0.0072	mg/Kg	☼	09/11/15 17:00	09/14/15 15:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	09/14/15 20:55	09/14/15 23:00	1
pH	7.89		0.200	0.200	SU			09/10/15 21:40	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B150 (0-2)**

**Lab Sample ID: 500-100875-8**

**Date Collected: 09/04/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 93.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 22:30	09/14/15 13:05	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/14/15 13:05	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/14/15 13:05	1
Toluene-d8 (Surr)	118		75 - 122	09/04/15 22:30	09/14/15 13:05	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
<b>Anthracene</b>	<b>0.022</b>	<b>J</b>	0.033	0.0056	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
<b>Benzo[a]anthracene</b>	<b>0.15</b>		0.033	0.0045	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B150 (0-2)**

**Lab Sample ID: 500-100875-8**

**Date Collected: 09/04/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 93.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.16		0.033	0.0065	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Benzo[b]fluoranthene	0.29		0.033	0.0072	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Benzo[g,h,i]perylene	0.087		0.033	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Benzo[k]fluoranthene	0.14		0.033	0.0099	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Carbazole	<0.17		0.17	0.084	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Chrysene	0.20		0.033	0.0092	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Dibenz(a,h)anthracene	0.030 J		0.033	0.0065	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,4-Dichlorophenol	<0.33		0.33	0.080	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,4-Dinitrophenol	<0.68		0.68	0.59	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Fluoranthene	0.22		0.033	0.0062	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Indeno[1,2,3-cd]pyrene	0.087		0.033	0.0087	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2-Methylnaphthalene	<0.033		0.033	0.0062	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Naphthalene	<0.033		0.033	0.0052	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Nitrobenzene	<0.033		0.033	0.0084	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B150 (0-2)**

**Lab Sample ID: 500-100875-8**

Date Collected: 09/04/15 12:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 93.8

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
<b>Phenanthrene</b>	<b>0.12</b>		0.033	0.0047	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Phenol	<0.17		0.17	0.075	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
<b>Pyrene</b>	<b>0.41</b>		0.033	0.0067	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,4,5-Trichlorophenol	<0.33		0.33	0.077	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
2,4,6-Trichlorophenol	<0.33		0.33	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		25 - 119				09/11/15 07:33	09/16/15 16:58	1
2-Fluorophenol	99		25 - 110				09/11/15 07:33	09/16/15 16:58	1
Nitrobenzene-d5	90		25 - 115				09/11/15 07:33	09/16/15 16:58	1
Phenol-d5	100		31 - 110				09/11/15 07:33	09/16/15 16:58	1
Terphenyl-d14	176	X	36 - 134				09/11/15 07:33	09/16/15 16:58	1
2,4,6-Tribromophenol	92		35 - 137				09/11/15 07:33	09/16/15 16:58	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.42</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Arsenic</b>	<b>6.7</b>		0.53	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Barium</b>	<b>28</b>		0.53	0.096	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Beryllium</b>	<b>0.22</b>		0.21	0.046	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Cadmium</b>	<b>0.53</b>	<b>B</b>	0.11	0.030	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Chromium</b>	<b>5.3</b>		0.53	0.090	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Cobalt</b>	<b>4.1</b>		0.26	0.059	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Copper</b>	<b>12</b>		0.53	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Iron</b>	<b>10000</b>		11	4.1	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Lead</b>	<b>68</b>		0.26	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Magnesium</b>	<b>78000</b>		26	11	mg/Kg	☼	09/11/15 08:45	09/15/15 06:01	5
<b>Calcium</b>	<b>130000</b>	<b>B</b>	53	17	mg/Kg	☼	09/11/15 08:45	09/15/15 06:01	5
<b>Manganese</b>	<b>300</b>		0.53	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Nickel</b>	<b>9.9</b>		0.53	0.14	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Vanadium</b>	<b>9.4</b>		0.26	0.077	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Zinc</b>	<b>45</b>		5.3	1.7	mg/Kg	☼	09/11/15 08:45	09/15/15 06:01	5
<b>Potassium</b>	<b>670</b>		26	4.3	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1
<b>Sodium</b>	<b>800</b>	<b>B</b>	53	6.9	mg/Kg	☼	09/11/15 08:45	09/12/15 02:58	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:30	09/16/15 23:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 23:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B150 (0-2)**

**Lab Sample ID: 500-100875-8**

Date Collected: 09/04/15 12:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 93.8

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>340</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 23:58	1
<b>Lead</b>	<b>0.033</b>		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 23:58	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:58	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
<b>Nickel</b>	<b>0.011</b>	J	0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
<b>Potassium</b>	<b>3.5</b>		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 23:58	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 23:58	1
<b>Zinc</b>	<b>0.10</b>		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 23:58	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Barium</b>	<b>0.14</b>	J	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 16:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 16:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Calcium</b>	<b>22</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Chromium</b>	<b>0.017</b>	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Copper</b>	<b>0.044</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Iron</b>	<b>7.8</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Lead</b>	<b>0.22</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Magnesium</b>	<b>9.4</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Nickel</b>	<b>0.014</b>	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Potassium</b>	<b>4.0</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 16:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 16:54	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Vanadium</b>	<b>0.016</b>	J	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 16:54	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 16:54	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:16	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:17	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B150 (0-2)**

**Lab Sample ID: 500-100875-8**

Date Collected: 09/04/15 12:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 93.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.015	0.0054	mg/Kg	☼	09/11/15 17:00	09/14/15 15:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	09/14/15 20:55	09/14/15 23:00	1
pH	9.30		0.200	0.200	SU			09/11/15 16:27	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B149 (0-2)**

**Lab Sample ID: 500-100875-9**

**Date Collected: 09/04/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 22:30	09/14/15 13:30	1
Dibromofluoromethane	106		75 - 120	09/04/15 22:30	09/14/15 13:30	1
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	09/04/15 22:30	09/14/15 13:30	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 22:30	09/14/15 13:30	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B149 (0-2)**

**Lab Sample ID: 500-100875-9**

**Date Collected: 09/04/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B149 (0-2)**

**Lab Sample ID: 500-100875-9**

**Date Collected: 09/04/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/11/15 07:33	09/15/15 16:51	1
2-Fluorophenol	88		25 - 110	09/11/15 07:33	09/15/15 16:51	1
Nitrobenzene-d5	79		25 - 115	09/11/15 07:33	09/15/15 16:51	1
Phenol-d5	87		31 - 110	09/11/15 07:33	09/15/15 16:51	1
Terphenyl-d14	106		36 - 134	09/11/15 07:33	09/15/15 16:51	1
2,4,6-Tribromophenol	65		35 - 137	09/11/15 07:33	09/15/15 16:51	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.42</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Arsenic</b>	<b>9.1</b>		0.59	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Barium</b>	<b>71</b>		0.59	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Beryllium</b>	<b>0.60</b>		0.24	0.051	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Cadmium</b>	<b>0.30</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Chromium</b>	<b>15</b>		0.59	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Cobalt</b>	<b>12</b>		0.29	0.066	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Copper</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Lead</b>	<b>21</b>		0.29	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Magnesium</b>	<b>22000</b>		5.9	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Calcium</b>	<b>33000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Manganese</b>	<b>480</b>		0.59	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Nickel</b>	<b>24</b>		0.59	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Selenium</b>	<b>0.37</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Vanadium</b>	<b>24</b>		0.29	0.086	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Zinc</b>	<b>49</b>		1.2	0.37	mg/Kg	☼	09/11/15 08:45	09/15/15 06:08	1
<b>Potassium</b>	<b>1500</b>		29	4.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1
<b>Sodium</b>	<b>1700</b>	<b>B</b>	59	7.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:03	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B149 (0-2)**

**Lab Sample ID: 500-100875-9**

**Date Collected: 09/04/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>380</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:05	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:05	1
<b>Magnesium</b>	<b>83</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:05	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
<b>Potassium</b>	<b>3.4</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:05	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:05	1
<b>Zinc</b>	<b>0.090</b>	<b>J</b>	0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:05	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.083</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Barium</b>	<b>0.69</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Beryllium</b>	<b>0.0076</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 17:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Calcium</b>	<b>37</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Cobalt</b>	<b>0.060</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Lead</b>	<b>0.27</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Magnesium</b>	<b>40</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Potassium</b>	<b>28</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 17:01	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Vanadium</b>	<b>0.24</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:01	1
<b>Zinc</b>	<b>0.60</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 17:01	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:18	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:19	1
<b>Thallium</b>	<b>0.0039</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:19	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B149 (0-2)**

**Lab Sample ID: 500-100875-9**

Date Collected: 09/04/15 12:30

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 84.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:26	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0065	mg/Kg	☼	09/11/15 17:00	09/14/15 15:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/14/15 20:55	09/14/15 23:00	1
pH	8.26		0.200	0.200	SU			09/11/15 16:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/14/15 13:56	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/14/15 13:56	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 22:30	09/14/15 13:56	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/14/15 13:56	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/11/15 07:33	09/15/15 01:56	1
2-Fluorophenol	101		25 - 110	09/11/15 07:33	09/15/15 01:56	1
Nitrobenzene-d5	95		25 - 115	09/11/15 07:33	09/15/15 01:56	1
Phenol-d5	103		31 - 110	09/11/15 07:33	09/15/15 01:56	1
Terphenyl-d14	94		36 - 134	09/11/15 07:33	09/15/15 01:56	1
2,4,6-Tribromophenol	61		35 - 137	09/11/15 07:33	09/15/15 01:56	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.27</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Arsenic</b>	<b>11</b>		0.59	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Barium</b>	<b>79</b>		0.59	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Beryllium</b>	<b>0.84</b>		0.24	0.051	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Cadmium</b>	<b>0.33</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Chromium</b>	<b>22</b>		0.59	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Cobalt</b>	<b>16</b>		0.30	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Copper</b>	<b>29</b>		0.59	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Iron</b>	<b>28000</b>		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Lead</b>	<b>22</b>		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Magnesium</b>	<b>5200</b>		5.9	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Calcium</b>	<b>3200</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Manganese</b>	<b>240</b>		0.59	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Nickel</b>	<b>38</b>		0.59	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Selenium</b>	<b>0.60</b>		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Vanadium</b>	<b>29</b>		0.30	0.086	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Zinc</b>	<b>65</b>		1.2	0.37	mg/Kg	☼	09/11/15 08:45	09/15/15 06:15	1
<b>Potassium</b>	<b>1900</b>		30	4.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1
<b>Sodium</b>	<b>1800</b>	<b>B</b>	59	7.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:07	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:12	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

Date Collected: 09/04/15 12:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 81.7

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>180</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Iron</b>	<b>0.64</b>		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Magnesium</b>	<b>85</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Manganese</b>	<b>14</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Potassium</b>	<b>3.6</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:12	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:12	1
<b>Zinc</b>	<b>0.45</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:12	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.087</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Barium</b>	<b>0.89</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Beryllium</b>	<b>0.0087</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 17:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Calcium</b>	<b>26</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Cobalt</b>	<b>0.087</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Copper</b>	<b>0.26</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Iron</b>	<b>220</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Magnesium</b>	<b>38</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Potassium</b>	<b>31</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 17:08	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:08	1
<b>Zinc</b>	<b>0.63</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 17:08	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:19	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:20	1
<b>Thallium</b>	<b>0.0040</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:20	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0065	mg/Kg	☼	09/11/15 17:00	09/14/15 15:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/14/15 20:55	09/14/15 23:00	1
pH	7.75		0.200	0.200	SU			09/11/15 16:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

**Date Collected: 09/04/15 07:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/14/15 14:20	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/14/15 14:20	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	09/04/15 22:30	09/14/15 14:20	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/14/15 14:20	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

**Date Collected: 09/04/15 07:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
<b>Benzo[b]fluoranthene</b>	<b>0.0090</b>	<b>J</b>	0.040	0.0087	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
<b>Fluoranthene</b>	<b>0.0081</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

**Date Collected: 09/04/15 07:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
<b>Pyrene</b>	<b>0.0081</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 02:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	90		25 - 119				09/11/15 07:33	09/15/15 02:19	1
2-Fluorophenol	97		25 - 110				09/11/15 07:33	09/15/15 02:19	1
Nitrobenzene-d5	95		25 - 115				09/11/15 07:33	09/15/15 02:19	1
Phenol-d5	100		31 - 110				09/11/15 07:33	09/15/15 02:19	1
Terphenyl-d14	98		36 - 134				09/11/15 07:33	09/15/15 02:19	1
2,4,6-Tribromophenol	81		35 - 137				09/11/15 07:33	09/15/15 02:19	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.57</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Arsenic</b>	<b>11</b>		0.60	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Barium</b>	<b>98</b>		0.60	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Beryllium</b>	<b>0.50</b>		0.24	0.052	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Cadmium</b>	<b>0.56</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Chromium</b>	<b>12</b>		0.60	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Cobalt</b>	<b>9.8</b>		0.30	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Copper</b>	<b>17</b>		0.60	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Iron</b>	<b>19000</b>		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Lead</b>	<b>32</b>		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Magnesium</b>	<b>23000</b>		6.0	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Calcium</b>	<b>44000</b>	<b>B</b>	60	19	mg/Kg	☼	09/11/15 08:45	09/15/15 06:37	5
<b>Manganese</b>	<b>780</b>		0.60	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Nickel</b>	<b>18</b>		0.60	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Vanadium</b>	<b>23</b>		0.30	0.087	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Zinc</b>	<b>69</b>		6.0	1.9	mg/Kg	☼	09/11/15 08:45	09/15/15 06:37	5
<b>Potassium</b>	<b>1000</b>		30	4.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1
<b>Sodium</b>	<b>1100</b>	<b>B</b>	60	7.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:12	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

**Date Collected: 09/04/15 07:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:18	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:18	1
<b>Manganese</b>	<b>0.039</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
<b>Potassium</b>	<b>2.2 J</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:18	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:18	1
<b>Zinc</b>	<b>0.095 J</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:18	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Barium</b>	<b>0.33 J</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 17:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 17:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Calcium</b>	<b>23</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Chromium</b>	<b>0.039</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Copper</b>	<b>0.062</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Iron</b>	<b>32</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Lead</b>	<b>0.028</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Magnesium</b>	<b>11</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Potassium</b>	<b>5.8</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 17:21	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Vanadium</b>	<b>0.058</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:21	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 17:21	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:20	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:22	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

**Date Collected: 09/04/15 07:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:29	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.050</b>		0.018	0.0064	mg/Kg	☼	09/11/15 17:00	09/14/15 15:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	09/14/15 20:55	09/14/15 23:01	1
pH	<b>8.33</b>		0.200	0.200	SU			09/11/15 16:45	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

**Date Collected: 09/04/15 07:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.029		0.029	0.0056	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Benzene	<0.0073		0.0073	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Bromodichloromethane	<0.0073		0.0073	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Bromoform	<0.0073		0.0073	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Bromomethane	<0.0073		0.0073	0.0027	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
2-Butanone (MEK)	<0.0073		0.0073	0.0026	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Carbon disulfide	<0.0073		0.0073	0.0027	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Carbon tetrachloride	<0.0073		0.0073	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Chlorobenzene	<0.0073		0.0073	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Chloroethane	<0.0073		0.0073	0.0031	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Chloroform	<0.0073		0.0073	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Chloromethane	<0.0073		0.0073	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
cis-1,2-Dichloroethene	<0.0073		0.0073	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
cis-1,3-Dichloropropene	<0.0073		0.0073	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Dibromochloromethane	<0.0073		0.0073	0.00084	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,1-Dichloroethane	<0.0073		0.0073	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,2-Dichloroethane	<0.0073		0.0073	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,1-Dichloroethene	<0.0073		0.0073	0.0027	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,2-Dichloropropane	<0.0073		0.0073	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,3-Dichloropropene, Total	<0.0073		0.0073	0.0021	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Ethylbenzene	<0.0073		0.0073	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
2-Hexanone	<0.0073		0.0073	0.0023	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Methylene Chloride	<0.0073		0.0073	0.0055	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
4-Methyl-2-pentanone (MIBK)	<0.0073		0.0073	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Methyl tert-butyl ether	<0.0073		0.0073	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Styrene	<0.0073		0.0073	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,1,2,2-Tetrachloroethane	<0.0073		0.0073	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Tetrachloroethene	<0.0073		0.0073	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Toluene	<0.0073		0.0073	0.0025	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
trans-1,2-Dichloroethene	<0.0073		0.0073	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
trans-1,3-Dichloropropene	<0.0073		0.0073	0.0021	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,1,1-Trichloroethane	<0.0073		0.0073	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
1,1,2-Trichloroethane	<0.0073		0.0073	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Trichloroethene	<0.0073		0.0073	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Vinyl acetate	<0.0073		0.0073	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Vinyl chloride	<0.0073		0.0073	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1
Xylenes, Total	<0.015		0.015	0.0027	mg/Kg	☼	09/04/15 22:30	09/14/15 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/14/15 14:45	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/14/15 14:45	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 22:30	09/14/15 14:45	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 22:30	09/14/15 14:45	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
<b>Anthracene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0065	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
<b>Benzo[a]anthracene</b>	<b>0.14</b>		0.039	0.0052	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

**Date Collected: 09/04/15 07:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.14		0.039	0.0075	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Benzo[b]fluoranthene	0.26		0.039	0.0084	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Benzo[g,h,i]perylene	0.073		0.039	0.013	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Benzo[k]fluoranthene	0.10		0.039	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Chrysene	0.20		0.039	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Dibenz(a,h)anthracene	0.027	J	0.039	0.0075	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Fluoranthene	0.17		0.039	0.0072	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Indeno[1,2,3-cd]pyrene	0.072		0.039	0.010	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2-Methylnaphthalene	0.0088	J	0.039	0.0072	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

**Date Collected: 09/04/15 07:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
<b>Phenanthrene</b>	<b>0.12</b>		0.039	0.0054	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
<b>Pyrene</b>	<b>0.31</b>		0.039	0.0077	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		25 - 119	09/11/15 07:33	09/16/15 17:23	1
2-Fluorophenol	98		25 - 110	09/11/15 07:33	09/16/15 17:23	1
Nitrobenzene-d5	87		25 - 115	09/11/15 07:33	09/16/15 17:23	1
Phenol-d5	106		31 - 110	09/11/15 07:33	09/16/15 17:23	1
Terphenyl-d14	171	X	36 - 134	09/11/15 07:33	09/16/15 17:23	1
2,4,6-Tribromophenol	66		35 - 137	09/11/15 07:33	09/16/15 17:23	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.66</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Arsenic</b>	<b>11</b>		0.60	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Barium</b>	<b>54</b>		0.60	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Beryllium</b>	<b>0.39</b>		0.24	0.052	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Cadmium</b>	<b>0.61</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Chromium</b>	<b>10</b>		0.60	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Cobalt</b>	<b>7.1</b>		0.30	0.068	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Copper</b>	<b>20</b>		0.60	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Iron</b>	<b>18000</b>		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Lead</b>	<b>220</b>		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Magnesium</b>	<b>39000</b>		6.0	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Calcium</b>	<b>72000</b>	<b>B</b>	60	19	mg/Kg	☼	09/11/15 08:45	09/15/15 06:44	5
<b>Manganese</b>	<b>470</b>		0.60	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Nickel</b>	<b>17</b>		0.60	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Vanadium</b>	<b>17</b>		0.30	0.088	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Zinc</b>	<b>84</b>		6.0	1.9	mg/Kg	☼	09/11/15 08:45	09/15/15 06:44	5
<b>Potassium</b>	<b>930</b>		30	4.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1
<b>Sodium</b>	<b>1300</b>	<b>B</b>	60	7.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:17	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

**Date Collected: 09/04/15 07:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:25	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:25	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:25	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:25	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
<b>Potassium</b>	<b>3.1</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:25	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:25	1
<b>Zinc</b>	<b>0.38</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:25	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 17:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 17:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Calcium</b>	<b>19</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Chromium</b>	<b>0.050</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Copper</b>	<b>0.063</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Iron</b>	<b>43</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Lead</b>	<b>0.50</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Nickel</b>	<b>0.039</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Potassium</b>	<b>8.1</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 17:28	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Vanadium</b>	<b>0.065</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:28	1
<b>Zinc</b>	<b>0.34</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 17:28	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:21	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:29	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

**Date Collected: 09/04/15 07:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:31	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.017	0.0061	mg/Kg	☼	09/11/15 17:00	09/14/15 15:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/14/15 20:55	09/14/15 23:01	1
pH	8.65		0.200	0.200	SU			09/11/15 16:51	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

**Date Collected: 09/04/15 08:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Chloroform	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/14/15 15:11	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/14/15 15:11	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/04/15 22:30	09/14/15 15:11	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/14/15 15:11	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

**Date Collected: 09/04/15 08:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

**Date Collected: 09/04/15 08:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119	09/11/15 07:33	09/15/15 02:42	1
2-Fluorophenol	97		25 - 110	09/11/15 07:33	09/15/15 02:42	1
Nitrobenzene-d5	99		25 - 115	09/11/15 07:33	09/15/15 02:42	1
Phenol-d5	101		31 - 110	09/11/15 07:33	09/15/15 02:42	1
Terphenyl-d14	100		36 - 134	09/11/15 07:33	09/15/15 02:42	1
2,4,6-Tribromophenol	72		35 - 137	09/11/15 07:33	09/15/15 02:42	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Arsenic</b>	<b>8.9</b>		0.60	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Barium</b>	<b>85</b>		0.60	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Beryllium</b>	<b>0.65</b>		0.24	0.052	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Cadmium</b>	<b>0.35</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Chromium</b>	<b>15</b>		0.60	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Cobalt</b>	<b>11</b>		0.30	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Copper</b>	<b>13</b>		0.60	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Iron</b>	<b>20000</b>		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Lead</b>	<b>19</b>		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Magnesium</b>	<b>5300</b>		6.0	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Calcium</b>	<b>6700</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Manganese</b>	<b>620</b>		0.60	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Nickel</b>	<b>26</b>		0.60	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Selenium</b>	<b>0.51</b>	<b>J</b>	0.60	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Vanadium</b>	<b>26</b>		0.30	0.087	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Zinc</b>	<b>50</b>		1.2	0.38	mg/Kg	☼	09/11/15 08:45	09/15/15 06:51	1
<b>Potassium</b>	<b>990</b>		30	4.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1
<b>Sodium</b>	<b>1800</b>	<b>B</b>	60	7.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:22	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

**Date Collected: 09/04/15 08:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>250</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:32	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:32	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:32	1
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
<b>Potassium</b>	<b>2.2 J</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:32	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:32	1
<b>Zinc</b>	<b>0.091 J</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:32	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.054</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Barium</b>	<b>0.70</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Beryllium</b>	<b>0.0062</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 17:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Calcium</b>	<b>28</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Cobalt</b>	<b>0.028</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Copper</b>	<b>0.098</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Iron</b>	<b>150</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Lead</b>	<b>0.072</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Magnesium</b>	<b>27</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Potassium</b>	<b>16</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 17:35	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Vanadium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:35	1
<b>Zinc</b>	<b>0.46</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 17:35	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:22	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:30	1
<b>Thallium</b>	<b>0.0020</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:30	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:12	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

**Date Collected: 09/04/15 08:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:33	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 15:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/14/15 20:55	09/14/15 23:01	1
pH	8.42		0.200	0.200	SU			09/11/15 16:57	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

**Date Collected: 09/04/15 08:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0042	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Carbon tetrachloride	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Chloroform	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,2-Dichloroethane	<0.0054		0.0054	0.00079	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,1,1-Dichloroethane	<0.0054		0.0054	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Trichloroethene	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	09/04/15 22:30	09/14/15 15:36	1
Dibromofluoromethane	102		75 - 120	09/04/15 22:30	09/14/15 15:36	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 22:30	09/14/15 15:36	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 22:30	09/14/15 15:36	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

**Date Collected: 09/04/15 08:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

Date Collected: 09/04/15 08:05

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	09/11/15 07:33	09/15/15 03:05	1
2-Fluorophenol	95		25 - 110	09/11/15 07:33	09/15/15 03:05	1
Nitrobenzene-d5	91		25 - 115	09/11/15 07:33	09/15/15 03:05	1
Phenol-d5	97		31 - 110	09/11/15 07:33	09/15/15 03:05	1
Terphenyl-d14	97		36 - 134	09/11/15 07:33	09/15/15 03:05	1
2,4,6-Tribromophenol	77		35 - 137	09/11/15 07:33	09/15/15 03:05	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Arsenic</b>	<b>9.2</b>		0.59	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Barium</b>	<b>89</b>		0.59	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Beryllium</b>	<b>0.63</b>		0.24	0.051	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Cadmium</b>	<b>0.37</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Chromium</b>	<b>14</b>		0.59	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Cobalt</b>	<b>12</b>		0.30	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Copper</b>	<b>16</b>		0.59	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Iron</b>	<b>21000</b>		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Lead</b>	<b>29</b>		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Magnesium</b>	<b>6800</b>		5.9	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Calcium</b>	<b>9600</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Manganese</b>	<b>690</b>		0.59	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Nickel</b>	<b>24</b>		0.59	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Selenium</b>	<b>0.30</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Vanadium</b>	<b>27</b>		0.30	0.087	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Zinc</b>	<b>68</b>		1.2	0.38	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Potassium</b>	<b>1000</b>		30	4.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1
<b>Sodium</b>	<b>1800</b>	<b>B</b>	59	7.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:34	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

**Date Collected: 09/04/15 08:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>220</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:39	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:39	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:39	1
<b>Manganese</b>	<b>0.46</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
<b>Potassium</b>	<b>2.2 J</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:39	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:39	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:39	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.067</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Barium</b>	<b>0.80</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Beryllium</b>	<b>0.0072</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 17:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Calcium</b>	<b>26</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Cobalt</b>	<b>0.036</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Magnesium</b>	<b>28</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Potassium</b>	<b>15</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:43	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 17:43	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:43	1
<b>Zinc</b>	<b>0.58</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 17:43	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:23	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:32	1
<b>Thallium</b>	<b>0.0024</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:32	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

**Date Collected: 09/04/15 08:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.2**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:35	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.021	0.0074	mg/Kg	☼	09/11/15 17:00	09/14/15 15:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/14/15 20:55	09/14/15 23:02	1
pH	8.31		0.200	0.200	SU			09/11/15 17:09	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

**Date Collected: 09/04/15 08:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/04/15 22:30	09/14/15 16:01	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/14/15 16:01	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	09/04/15 22:30	09/14/15 16:01	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/14/15 16:01	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
<b>Benzo[a]anthracene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

**Date Collected: 09/04/15 08:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
<b>Benzo[b]fluoranthene</b>	<b>0.040</b>		0.039	0.0084	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
<b>Benzo[k]fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.039	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
<b>Fluoranthene</b>	<b>0.037</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

Date Collected: 09/04/15 08:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.8

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
<b>Phenanthrene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
<b>Pyrene</b>	<b>0.041</b>		0.039	0.0078	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		25 - 119	09/11/15 07:33	09/15/15 17:17	1
2-Fluorophenol	89		25 - 110	09/11/15 07:33	09/15/15 17:17	1
Nitrobenzene-d5	80		25 - 115	09/11/15 07:33	09/15/15 17:17	1
Phenol-d5	86		31 - 110	09/11/15 07:33	09/15/15 17:17	1
Terphenyl-d14	101		36 - 134	09/11/15 07:33	09/15/15 17:17	1
2,4,6-Tribromophenol	60		35 - 137	09/11/15 07:33	09/15/15 17:17	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.76</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Arsenic</b>	<b>12</b>		0.59	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Barium</b>	<b>52</b>		0.59	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Beryllium</b>	<b>0.45</b>		0.24	0.051	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Cadmium</b>	<b>0.46</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Chromium</b>	<b>11</b>		0.59	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Cobalt</b>	<b>9.0</b>		0.29	0.066	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Copper</b>	<b>19</b>		0.59	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Iron</b>	<b>21000</b>		12	4.5	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Lead</b>	<b>95</b>		0.29	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Magnesium</b>	<b>50000</b>		5.9	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/11/15 08:45	09/15/15 06:58	1
<b>Manganese</b>	<b>500</b>		0.59	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Nickel</b>	<b>21</b>		0.59	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Selenium</b>	<b>0.58</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Vanadium</b>	<b>19</b>		0.29	0.086	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Zinc</b>	<b>76</b>		1.2	0.37	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Potassium</b>	<b>1300</b>		29	4.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1
<b>Sodium</b>	<b>1300</b>	<b>B</b>	59	7.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:38	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

Date Collected: 09/04/15 08:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.8

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:45	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:45	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
<b>Potassium</b>	<b>5.2</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:45	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:45	1
<b>Zinc</b>	<b>0.71</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:45	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.021</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 17:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 17:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Calcium</b>	<b>9.8</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Chromium</b>	<b>0.064</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Copper</b>	<b>0.048</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Iron</b>	<b>64</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Lead</b>	<b>0.073</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Magnesium</b>	<b>11</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Nickel</b>	<b>0.057</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Potassium</b>	<b>8.7</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 17:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 17:50	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Vanadium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 17:50	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 17:50	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:24	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:34	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:16	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

Date Collected: 09/04/15 08:20

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 82.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0068	mg/Kg	☼	09/11/15 17:00	09/14/15 15:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/14/15 20:55	09/14/15 23:03	1
pH	8.28		0.200	0.200	SU			09/11/15 17:15	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

**Date Collected: 09/04/15 08:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.021	0.0040	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
2-Butanone (MEK)	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/14/15 16:26	1
Dibromofluoromethane	106		75 - 120	09/04/15 22:30	09/14/15 16:26	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	09/04/15 22:30	09/14/15 16:26	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/14/15 16:26	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Anthracene	0.011	J	0.041	0.0069	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Benzo[a]anthracene	0.061		0.041	0.0055	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

**Date Collected: 09/04/15 08:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.090</b>		0.041	0.0080	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Benzo[b]fluoranthene</b>	<b>0.12</b>		0.041	0.0089	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Benzo[g,h,i]perylene</b>	<b>0.080</b>		0.041	0.013	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Benzo[k]fluoranthene</b>	<b>0.059</b>		0.041	0.012	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Chrysene</b>	<b>0.099</b>		0.041	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Fluoranthene</b>	<b>0.074</b>		0.041	0.0076	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.059</b>		0.041	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>2-Methylnaphthalene</b>	<b>0.011 J</b>		0.041	0.0076	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Naphthalene</b>	<b>0.0083 J</b>		0.041	0.0063	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

Date Collected: 09/04/15 08:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Phenanthrene</b>	<b>0.078</b>		0.041	0.0057	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
<b>Pyrene</b>	<b>0.22</b>		0.041	0.0082	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/11/15 07:33	09/16/15 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		25 - 119				09/11/15 07:33	09/16/15 19:54	1
2-Fluorophenol	100		25 - 110				09/11/15 07:33	09/16/15 19:54	1
Nitrobenzene-d5	89		25 - 115				09/11/15 07:33	09/16/15 19:54	1
Phenol-d5	106		31 - 110				09/11/15 07:33	09/16/15 19:54	1
Terphenyl-d14	219	X	36 - 134				09/11/15 07:33	09/16/15 19:54	1
2,4,6-Tribromophenol	85		35 - 137				09/11/15 07:33	09/16/15 19:54	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.38</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Arsenic</b>	<b>9.3</b>		0.60	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Barium</b>	<b>87</b>		0.60	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.052	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Cadmium</b>	<b>0.46</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Chromium</b>	<b>14</b>		0.60	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Cobalt</b>	<b>11</b>		0.30	0.068	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Copper</b>	<b>18</b>		0.60	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Iron</b>	<b>19000</b>		12	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Lead</b>	<b>72</b>		0.30	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Magnesium</b>	<b>20000</b>		6.0	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Calcium</b>	<b>32000</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Manganese</b>	<b>560</b>		0.60	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Nickel</b>	<b>22</b>		0.60	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Selenium</b>	<b>0.65</b>		0.60	0.30	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Vanadium</b>	<b>28</b>		0.30	0.088	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Zinc</b>	<b>71</b>		1.2	0.38	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Potassium</b>	<b>1200</b>		30	4.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1
<b>Sodium</b>	<b>1100</b>	<b>B</b>	60	7.9	mg/Kg	☼	09/11/15 08:45	09/12/15 03:43	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Barium</b>	<b>0.79</b>		0.50	0.050	mg/L		09/16/15 10:30	09/17/15 00:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 00:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

Date Collected: 09/04/15 08:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.5

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>250</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Iron</b>	<b>0.24</b>		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Lead</b>	<b>0.038</b>		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Magnesium</b>	<b>91</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Manganese</b>	<b>7.5</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Potassium</b>	<b>6.2</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 00:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 00:52	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 00:52	1
<b>Zinc</b>	<b>0.25</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 00:52	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.024</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Calcium</b>	<b>19</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Chromium</b>	<b>0.057</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Copper</b>	<b>0.061</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Iron</b>	<b>57</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Lead</b>	<b>0.24</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Magnesium</b>	<b>13</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Nickel</b>	<b>0.049</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Potassium</b>	<b>8.7</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 18:12	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Vanadium</b>	<b>0.098</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:12	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 18:12	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:25	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:35	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

**Date Collected: 09/04/15 08:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.5**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.021	0.0073	mg/Kg	☼	09/11/15 17:00	09/14/15 15:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/14/15 20:55	09/14/15 23:03	1
pH	7.92		0.200	0.200	SU			09/11/15 17:21	1





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B01 (0-2)**

**Lab Sample ID: 500-100875-17**

**Date Collected: 09/04/15 08:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 22:30	09/14/15 16:51	1
Dibromofluoromethane	103		75 - 120	09/04/15 22:30	09/14/15 16:51	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 22:30	09/14/15 16:51	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 22:30	09/14/15 16:51	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Anthracene</b>	<b>0.0062</b>	<b>J</b>	0.035	0.0058	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Benzo[a]anthracene</b>	<b>0.025</b>	<b>J</b>	0.035	0.0047	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B01 (0-2)**

**Lab Sample ID: 500-100875-17**

**Date Collected: 09/04/15 08:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.025</b>	<b>J</b>	0.035	0.0068	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Benzo[b]fluoranthene</b>	<b>0.039</b>		0.035	0.0075	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Benzo[g,h,i]perylene</b>	<b>0.026</b>	<b>J</b>	0.035	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Benzo[k]fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.035	0.010	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Chrysene</b>	<b>0.032</b>	<b>J</b>	0.035	0.0095	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0067	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Fluoranthene</b>	<b>0.035</b>		0.035	0.0065	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.019</b>	<b>J</b>	0.035	0.0090	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>2-Methylnaphthalene</b>	<b>0.0083</b>	<b>J</b>	0.035	0.0064	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B01 (0-2)**

**Lab Sample ID: 500-100875-17**

Date Collected: 09/04/15 08:40

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 90.3

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Phenanthrene</b>	<b>0.032</b>	<b>J</b>	0.035	0.0049	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
Phenol	<0.18		0.18	0.077	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Pyrene</b>	<b>0.069</b>		0.035	0.0069	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 17:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	98		25 - 119				09/11/15 07:33	09/16/15 17:48	1
2-Fluorophenol	99		25 - 110				09/11/15 07:33	09/16/15 17:48	1
Nitrobenzene-d5	87		25 - 115				09/11/15 07:33	09/16/15 17:48	1
Phenol-d5	106		31 - 110				09/11/15 07:33	09/16/15 17:48	1
Terphenyl-d14	198	X	36 - 134				09/11/15 07:33	09/16/15 17:48	1
2,4,6-Tribromophenol	66		35 - 137				09/11/15 07:33	09/16/15 17:48	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.41</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Arsenic</b>	<b>7.3</b>		0.55	0.25	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Barium</b>	<b>33</b>		0.55	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Beryllium</b>	<b>0.24</b>		0.22	0.048	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.11	0.032	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Chromium</b>	<b>7.2</b>		0.55	0.095	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Cobalt</b>	<b>5.5</b>		0.28	0.062	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Copper</b>	<b>15</b>		0.55	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Iron</b>	<b>12000</b>		11	4.2	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Lead</b>	<b>16</b>		0.28	0.14	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Magnesium</b>	<b>63000</b>		28	11	mg/Kg	☼	09/11/15 08:45	09/15/15 07:04	5
<b>Calcium</b>	<b>110000</b>	<b>B</b>	55	18	mg/Kg	☼	09/11/15 08:45	09/15/15 07:04	5
<b>Manganese</b>	<b>380</b>		0.55	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Nickel</b>	<b>12</b>		0.55	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Vanadium</b>	<b>16</b>		0.28	0.080	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Zinc</b>	<b>42</b>		1.1	0.35	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Potassium</b>	<b>790</b>		28	4.5	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1
<b>Sodium</b>	<b>620</b>	<b>B</b>	55	7.3	mg/Kg	☼	09/11/15 08:45	09/12/15 03:47	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:30	09/17/15 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 01:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 01:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B01 (0-2)**

**Lab Sample ID: 500-100875-17**

**Date Collected: 09/04/15 08:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>390</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:15	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 01:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 01:15	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:15	1
<b>Manganese</b>	<b>0.88</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 01:15	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:15	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 01:15	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.019</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 18:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Calcium</b>	<b>21</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Chromium</b>	<b>0.050</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Copper</b>	<b>0.065</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Iron</b>	<b>49</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Magnesium</b>	<b>14</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Manganese</b>	<b>0.75</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Potassium</b>	<b>7.0</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:19	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 18:19	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Vanadium</b>	<b>0.086</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:19	1
<b>Zinc</b>	<b>0.29</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 18:19	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:26	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:37	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B01 (0-2)**

**Lab Sample ID: 500-100875-17**

**Date Collected: 09/04/15 08:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.3**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:41	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0098	J	0.016	0.0056	mg/Kg	☼	09/11/15 17:00	09/14/15 15:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	09/15/15 15:15	09/15/15 17:26	1
pH	9.22		0.200	0.200	SU			09/11/15 17:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B158 (0-2)**

**Lab Sample ID: 500-100875-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.028		0.028	0.0053	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Benzene	<0.0069		0.0069	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Bromodichloromethane	<0.0069		0.0069	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Bromoform	<0.0069		0.0069	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Bromomethane	<0.0069		0.0069	0.0025	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
2-Butanone (MEK)	<0.0069		0.0069	0.0025	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Carbon disulfide	<0.0069		0.0069	0.0025	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Carbon tetrachloride	<0.0069		0.0069	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Chlorobenzene	<0.0069		0.0069	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Chloroethane	<0.0069		0.0069	0.0029	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Chloroform	<0.0069		0.0069	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Chloromethane	<0.0069		0.0069	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
cis-1,2-Dichloroethene	<0.0069		0.0069	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
cis-1,3-Dichloropropene	<0.0069		0.0069	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Dibromochloromethane	<0.0069		0.0069	0.00079	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,1-Dichloroethane	<0.0069		0.0069	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,2-Dichloroethane	<0.0069		0.0069	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,1-Dichloroethene	<0.0069		0.0069	0.0025	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,2-Dichloropropane	<0.0069		0.0069	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,3-Dichloropropene, Total	<0.0069		0.0069	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Ethylbenzene	<0.0069		0.0069	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
2-Hexanone	<0.0069		0.0069	0.0021	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Methylene Chloride	<0.0069		0.0069	0.0052	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
4-Methyl-2-pentanone (MIBK)	<0.0069		0.0069	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Methyl tert-butyl ether	<0.0069		0.0069	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Styrene	<0.0069		0.0069	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,1,2,2-Tetrachloroethane	<0.0069		0.0069	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Tetrachloroethene	<0.0069		0.0069	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Toluene	<0.0069		0.0069	0.0024	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
trans-1,2-Dichloroethene	<0.0069		0.0069	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
trans-1,3-Dichloropropene	<0.0069		0.0069	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,1,1-Trichloroethane	<0.0069		0.0069	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
1,1,2-Trichloroethane	<0.0069		0.0069	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Trichloroethene	<0.0069		0.0069	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Vinyl acetate	<0.0069		0.0069	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Vinyl chloride	<0.0069		0.0069	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1
Xylenes, Total	<0.014		0.014	0.0026	mg/Kg	☼	09/04/15 22:30	09/14/15 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/14/15 17:16	1
Dibromofluoromethane	83		75 - 120	09/04/15 22:30	09/14/15 17:16	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 22:30	09/14/15 17:16	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/14/15 17:16	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0070	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
<b>Anthracene</b>	<b>0.078</b>		0.039	0.0065	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
<b>Benzo[a]anthracene</b>	<b>0.40</b>		0.039	0.0053	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B158 (0-2)**

**Lab Sample ID: 500-100875-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.54		0.039	0.0076	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Benzo[b]fluoranthene	0.83		0.039	0.0084	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Benzo[g,h,i]perylene	0.42		0.039	0.013	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Benzo[k]fluoranthene	0.34		0.039	0.012	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Chrysene	0.46		0.039	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Dibenz(a,h)anthracene	0.078		0.039	0.0076	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Fluoranthene	0.63		0.039	0.0072	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Fluorene	0.017 J		0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Indeno[1,2,3-cd]pyrene	0.37		0.039	0.010	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B158 (0-2)**

**Lab Sample ID: 500-100875-18**

Date Collected: 09/04/15 11:15

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
<b>Phenanthrene</b>	<b>0.35</b>		0.039	0.0054	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
<b>Pyrene</b>	<b>1.0</b>		0.039	0.0078	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/11/15 07:33	09/16/15 18:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	94		25 - 119				09/11/15 07:33	09/16/15 18:14	1
2-Fluorophenol	95		25 - 110				09/11/15 07:33	09/16/15 18:14	1
Nitrobenzene-d5	86		25 - 115				09/11/15 07:33	09/16/15 18:14	1
Phenol-d5	101		31 - 110				09/11/15 07:33	09/16/15 18:14	1
Terphenyl-d14	179	X	36 - 134				09/11/15 07:33	09/16/15 18:14	1
2,4,6-Tribromophenol	69		35 - 137				09/11/15 07:33	09/16/15 18:14	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.49</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Arsenic</b>	<b>8.3</b>		0.57	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Barium</b>	<b>65</b>		0.57	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Beryllium</b>	<b>0.32</b>		0.23	0.050	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Cadmium</b>	<b>0.38</b>	<b>B</b>	0.11	0.033	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Chromium</b>	<b>9.4</b>		0.57	0.099	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Cobalt</b>	<b>5.5</b>		0.29	0.065	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Copper</b>	<b>16</b>		0.57	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Iron</b>	<b>16000</b>		11	4.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Lead</b>	<b>24</b>		0.29	0.14	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Magnesium</b>	<b>33000</b>		5.7	2.3	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Calcium</b>	<b>68000</b>	<b>B</b>	57	18	mg/Kg	☼	09/11/15 08:45	09/15/15 07:11	5
<b>Manganese</b>	<b>290</b>		0.57	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Nickel</b>	<b>14</b>		0.57	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Selenium</b>	<b>0.67</b>		0.57	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Vanadium</b>	<b>17</b>		0.29	0.084	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Zinc</b>	<b>47</b>		1.1	0.36	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Potassium</b>	<b>790</b>		29	4.7	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1
<b>Sodium</b>	<b>2500</b>	<b>B</b>	57	7.6	mg/Kg	☼	09/11/15 08:45	09/12/15 03:52	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:30	09/17/15 01:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 01:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 01:22	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B158 (0-2)**

**Lab Sample ID: 500-100875-18**

Date Collected: 09/04/15 11:15

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>400</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 01:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 01:22	1
<b>Magnesium</b>	<b>85</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:22	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
<b>Potassium</b>	<b>5.4</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 01:22	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:22	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 01:22	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.023</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 18:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 18:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Calcium</b>	<b>19</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Chromium</b>	<b>0.067</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Copper</b>	<b>0.077</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Iron</b>	<b>69</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Magnesium</b>	<b>15</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Manganese</b>	<b>0.80</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Nickel</b>	<b>0.057</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Potassium</b>	<b>8.7</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 18:26	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Vanadium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:26	1
<b>Zinc</b>	<b>0.34</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 18:26	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:27	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:39	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B158 (0-2)**

**Lab Sample ID: 500-100875-18**

Date Collected: 09/04/15 11:15

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 83.2

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0063	mg/Kg	☼	09/11/15 17:00	09/14/15 15:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	09/15/15 15:15	09/15/15 17:26	1
pH	9.04		0.200	0.200	SU			09/11/15 17:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B157 (0-2)**

**Lab Sample ID: 500-100875-19**

**Date Collected: 09/04/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Bromodichloromethane	<0.0053		0.0053	0.00089	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Bromomethane	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Carbon disulfide	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Chlorobenzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 22:30	09/14/15 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/14/15 17:41	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/14/15 17:41	1
1,2-Dichloroethane-d4 (Surr)	132		70 - 134	09/04/15 22:30	09/14/15 17:41	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 22:30	09/14/15 17:41	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.030	J	0.039	0.0071	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Acenaphthylene	0.011	J	0.039	0.0052	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Anthracene	0.13		0.039	0.0066	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Benzo[a]anthracene	0.46		0.039	0.0053	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B157 (0-2)**

**Lab Sample ID: 500-100875-19**

**Date Collected: 09/04/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.46		0.039	0.0077	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Benzo[b]fluoranthene	0.80		0.039	0.0086	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Benzo[g,h,i]perylene	0.36		0.039	0.013	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Benzo[k]fluoranthene	0.30		0.039	0.012	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Bis(2-ethylhexyl) phthalate	0.11	J	0.20	0.073	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Chrysene	0.55		0.039	0.011	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Dibenz(a,h)anthracene	0.079		0.039	0.0077	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Fluoranthene	0.77		0.039	0.0074	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Fluorene	0.041		0.039	0.0056	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Indeno[1,2,3-cd]pyrene	0.36		0.039	0.010	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2-Methylnaphthalene	0.0088	J	0.039	0.0073	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B157 (0-2)**

**Lab Sample ID: 500-100875-19**

Date Collected: 09/04/15 11:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.3

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
<b>Phenanthrene</b>	<b>0.64</b>		0.039	0.0055	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
<b>Pyrene</b>	<b>1.6</b>		0.039	0.0079	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/11/15 07:33	09/16/15 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		25 - 119	09/11/15 07:33	09/16/15 18:39	1
2-Fluorophenol	93		25 - 110	09/11/15 07:33	09/16/15 18:39	1
Nitrobenzene-d5	80		25 - 115	09/11/15 07:33	09/16/15 18:39	1
Phenol-d5	98		31 - 110	09/11/15 07:33	09/16/15 18:39	1
Terphenyl-d14	209	X	36 - 134	09/11/15 07:33	09/16/15 18:39	1
2,4,6-Tribromophenol	82		35 - 137	09/11/15 07:33	09/16/15 18:39	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Arsenic</b>	<b>10</b>		0.59	0.27	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Barium</b>	<b>68</b>		0.59	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Beryllium</b>	<b>0.49</b>		0.24	0.051	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Cadmium</b>	<b>0.52</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Chromium</b>	<b>13</b>		0.59	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Cobalt</b>	<b>9.0</b>		0.29	0.067	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Copper</b>	<b>24</b>		0.59	0.13	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Iron</b>	<b>20000</b>		12	4.5	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Lead</b>	<b>46</b>		0.29	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Magnesium</b>	<b>28000</b>		5.9	2.4	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Calcium</b>	<b>50000</b>	<b>B</b>	59	19	mg/Kg	☼	09/11/15 08:45	09/15/15 07:18	5
<b>Manganese</b>	<b>360</b>		0.59	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Nickel</b>	<b>21</b>		0.59	0.16	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Selenium</b>	<b>0.58</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Vanadium</b>	<b>19</b>		0.29	0.086	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Zinc</b>	<b>81</b>		1.2	0.37	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Potassium</b>	<b>1200</b>		29	4.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1
<b>Sodium</b>	<b>1900</b>	<b>B</b>	59	7.8	mg/Kg	☼	09/11/15 08:45	09/12/15 03:57	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/16/15 10:30	09/17/15 01:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 01:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 01:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B157 (0-2)**

**Lab Sample ID: 500-100875-19**

Date Collected: 09/04/15 11:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.3

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>310</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 01:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 01:29	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:29	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
<b>Potassium</b>	<b>5.3</b>		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 01:29	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:29	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 01:29	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.018</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 18:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 18:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Calcium</b>	<b>25</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Chromium</b>	<b>0.057</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Copper</b>	<b>0.058</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Iron</b>	<b>65</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Lead</b>	<b>0.079</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Magnesium</b>	<b>14</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Manganese</b>	<b>0.47</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Nickel</b>	<b>0.039</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Potassium</b>	<b>8.1</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 18:33	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Vanadium</b>	<b>0.084</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:33	1
<b>Zinc</b>	<b>0.25</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 18:33	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:30	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:40	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B157 (0-2)**

**Lab Sample ID: 500-100875-19**

Date Collected: 09/04/15 11:25

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 79.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:49	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 15:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	09/15/15 15:15	09/15/15 17:26	1
pH	8.52		0.200	0.200	SU			09/11/15 17:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

**Date Collected: 09/04/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.021</b>		0.020	0.0038	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Methylene Chloride	<0.0050		0.0050	0.0037	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/04/15 22:30	09/14/15 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 22:30	09/14/15 18:06	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/14/15 18:06	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 22:30	09/14/15 18:06	1
Toluene-d8 (Surr)	118		75 - 122	09/04/15 22:30	09/14/15 18:06	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
<b>Benzo[a]anthracene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

**Date Collected: 09/04/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
<b>Benzo[b]fluoranthene</b>	<b>0.038</b>		0.038	0.0082	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
<b>Chrysene</b>	<b>0.026</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
<b>Fluoranthene</b>	<b>0.036</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

Date Collected: 09/04/15 13:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.9

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
<b>Pyrene</b>	<b>0.044</b>		0.038	0.0075	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/11/15 07:33	09/15/15 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	09/11/15 07:33	09/15/15 19:02	1
2-Fluorophenol	94		25 - 110	09/11/15 07:33	09/15/15 19:02	1
Nitrobenzene-d5	83		25 - 115	09/11/15 07:33	09/15/15 19:02	1
Phenol-d5	87		31 - 110	09/11/15 07:33	09/15/15 19:02	1
Terphenyl-d14	123		36 - 134	09/11/15 07:33	09/15/15 19:02	1
2,4,6-Tribromophenol	57		35 - 137	09/11/15 07:33	09/15/15 19:02	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.42</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Arsenic</b>	<b>8.2</b>		0.57	0.26	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Barium</b>	<b>35</b>		0.57	0.10	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Beryllium</b>	<b>0.54</b>		0.23	0.049	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Cadmium</b>	<b>0.32</b>	<b>B</b>	0.11	0.033	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Chromium</b>	<b>14</b>		0.57	0.098	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Cobalt</b>	<b>8.9</b>		0.28	0.064	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Copper</b>	<b>23</b>		0.57	0.12	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Lead</b>	<b>130</b>		0.28	0.14	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Magnesium</b>	<b>31000</b>		5.7	2.3	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Calcium</b>	<b>63000</b>	<b>B</b>	57	18	mg/Kg	☼	09/11/15 08:45	09/15/15 07:25	5
<b>Manganese</b>	<b>340</b>		0.57	0.11	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Nickel</b>	<b>23</b>		0.57	0.15	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Vanadium</b>	<b>18</b>		0.28	0.083	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Zinc</b>	<b>71</b>		1.1	0.36	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Potassium</b>	<b>2000</b>		28	4.6	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1
<b>Sodium</b>	<b>800</b>	<b>B</b>	57	7.5	mg/Kg	☼	09/11/15 08:45	09/12/15 04:02	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 10:30	09/17/15 01:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/17/15 01:35	1
<b>Cadmium</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 10:30	09/17/15 01:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

Date Collected: 09/04/15 13:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.9

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	960		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:35	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
Cobalt	0.060		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
Copper	0.011	J	0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/17/15 01:35	1
Lead	0.026		0.0075	0.0075	mg/L		09/16/15 10:30	09/17/15 01:35	1
Magnesium	310		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:35	1
Manganese	8.9		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
Nickel	0.047		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
Potassium	2.5		2.5	0.50	mg/L		09/16/15 10:30	09/17/15 01:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/17/15 01:35	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/17/15 01:35	1
Zinc	0.23		0.10	0.020	mg/L		09/16/15 10:30	09/17/15 01:35	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.055		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Barium	0.43	J	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 18:40	1
Beryllium	0.0051		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 18:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 18:40	1
Calcium	32		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:40	1
Chromium	0.11		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Cobalt	0.049		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Copper	0.14		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Iron	130		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 18:40	1
Lead	0.28		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 18:40	1
Magnesium	31		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:40	1
Manganese	1.2		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Nickel	0.13		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Potassium	26		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 18:40	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Vanadium	0.16		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:40	1
Zinc	0.62		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 18:40	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:31	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 10:42	1
Thallium	0.0024		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 10:42	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

Date Collected: 09/04/15 13:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.9

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 10:51	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0065	mg/Kg	☼	09/11/15 17:00	09/14/15 15:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/15/15 15:15	09/15/15 17:27	1
pH	8.43		0.200	0.200	SU			09/11/15 17:45	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## GC/MS VOA

### Prep Batch: 303535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	5035	
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	5035	
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	5035	
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	5035	
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	5035	
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	5035	
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	5035	
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	5035	
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	5035	
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	5035	
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	5035	
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	5035	
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	5035	
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	5035	
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	5035	
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	5035	
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	5035	
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	5035	
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	5035	
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	5035	

### Analysis Batch: 303849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	8260B	303535
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	8260B	303535
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	8260B	303535
LCS 500-303849/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-303849/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-303849/6	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 304054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	8260B	303535
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	8260B	303535
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	8260B	303535
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	8260B	303535
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	8260B	303535
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	8260B	303535
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	8260B	303535
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	8260B	303535
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	8260B	303535
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	8260B	303535
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	8260B	303535
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	8260B	303535
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	8260B	303535
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	8260B	303535
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	8260B	303535
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	8260B	303535
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	8260B	303535
LCS 500-304054/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-304054/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## GC/MS VOA (Continued)

### Analysis Batch: 304054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-304054/7	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 303853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	3541	
500-100875-1 MS	2618-7-B156 (0-2)	Total/NA	Solid	3541	
500-100875-1 MSD	2618-7-B156 (0-2)	Total/NA	Solid	3541	
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	3541	
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	3541	
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	3541	
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	3541	
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	3541	
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	3541	
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	3541	
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	3541	
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	3541	
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	3541	
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	3541	
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	3541	
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	3541	
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	3541	
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	3541	
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	3541	
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	3541	
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	3541	
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	3541	
LCS 500-303853/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-303853/1-A	Method Blank	Total/NA	Solid	3541	

### Analysis Batch: 303944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-303853/2-A	Lab Control Sample	Total/NA	Solid	8270D	303853
MB 500-303853/1-A	Method Blank	Total/NA	Solid	8270D	303853

### Analysis Batch: 304247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	8270D	303853
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	8270D	303853
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	8270D	303853
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	8270D	303853
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	8270D	303853

### Analysis Batch: 304318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	8270D	303853
500-100875-1 MS	2618-7-B156 (0-2)	Total/NA	Solid	8270D	303853
500-100875-1 MSD	2618-7-B156 (0-2)	Total/NA	Solid	8270D	303853
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	8270D	303853

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 304318 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	8270D	303853
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	8270D	303853
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	8270D	303853
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	8270D	303853
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	8270D	303853

### Analysis Batch: 304461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	8270D	303853
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	8270D	303853
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	8270D	303853
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	8270D	303853
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	8270D	303853
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	8270D	303853
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	8270D	303853
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	8270D	303853

## Metals

### Prep Batch: 303879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	3050B	
500-100875-1 DU	2618-7-B156 (0-2)	Total/NA	Solid	3050B	
500-100875-1 MS	2618-7-B156 (0-2)	Total/NA	Solid	3050B	
500-100875-1 MSD	2618-7-B156 (0-2)	Total/NA	Solid	3050B	
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	3050B	
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	3050B	
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	3050B	
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	3050B	
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	3050B	
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	3050B	
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	3050B	
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	3050B	
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	3050B	
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	3050B	
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	3050B	
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	3050B	
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	3050B	
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	3050B	
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	3050B	
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	3050B	
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	3050B	
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	3050B	
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	3050B	
LCS 500-303879/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-303879/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 303936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	7471B	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Prep Batch: 303936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1 DU	2618-7-B156 (0-2)	Total/NA	Solid	7471B	
500-100875-1 MS	2618-7-B156 (0-2)	Total/NA	Solid	7471B	
500-100875-1 MSD	2618-7-B156 (0-2)	Total/NA	Solid	7471B	
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	7471B	
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	7471B	
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	7471B	
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	7471B	
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	7471B	
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	7471B	
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	7471B	
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	7471B	
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	7471B	
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	7471B	
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	7471B	
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	7471B	
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	7471B	
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	7471B	
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	7471B	
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	7471B	
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	7471B	
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	7471B	
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	7471B	
LCS 500-303936/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-303936/12-A	Method Blank	Total/NA	Solid	7471B	

### Analysis Batch: 304084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-1 DU	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-1 MS	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-1 MSD	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	6010B	303879
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	6010B	303879
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	6010B	303879
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	6010B	303879
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	6010B	303879
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	6010B	303879
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	6010B	303879
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	6010B	303879
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	6010B	303879
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	6010B	303879
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	6010B	303879
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	6010B	303879
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	6010B	303879
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	6010B	303879
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	6010B	303879
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	6010B	303879
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	6010B	303879
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	6010B	303879
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	6010B	303879
LCS 500-303879/2-A	Lab Control Sample	Total/NA	Solid	6010B	303879

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Analysis Batch: 304084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-303879/1-A	Method Blank	Total/NA	Solid	6010B	303879

### Leach Batch: 304208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	SPLP East	Solid	1312	
500-100875-1 DU	2618-7-B156 (0-2)	SPLP East	Solid	1312	
500-100875-1 MS	2618-7-B156 (0-2)	SPLP East	Solid	1312	
500-100875-2	2618-7-B155 (0-2)	SPLP East	Solid	1312	
500-100875-2 DU	2618-7-B155 (0-2)	SPLP East	Solid	1312	
500-100875-2 MS	2618-7-B155 (0-2)	SPLP East	Solid	1312	
500-100875-3	2618-7-B155 DUP (0-2)	SPLP East	Solid	1312	
500-100875-4	2618-7-B154 (0-2)	SPLP East	Solid	1312	
500-100875-5	2618-7-B153 (0-2)	SPLP East	Solid	1312	
500-100875-6	2618-7-B152 (0-2)	SPLP East	Solid	1312	
500-100875-7	2618-7-B151 (0-2)	SPLP East	Solid	1312	
500-100875-8	2618-7-B150 (0-2)	SPLP East	Solid	1312	
500-100875-9	2618-7-B149 (0-2)	SPLP East	Solid	1312	
500-100875-10	2618-7-B148 (0-2)	SPLP East	Solid	1312	
500-100875-11	2618-7-B07 (0-2)	SPLP East	Solid	1312	
500-100875-12	2618-7-B06 (0-2)	SPLP East	Solid	1312	
500-100875-13	2618-7-B05 (0-2)	SPLP East	Solid	1312	
500-100875-14	2618-7-B05 DUP (0-2)	SPLP East	Solid	1312	
500-100875-15	2618-7-B04 (0-2)	SPLP East	Solid	1312	
500-100875-16	2618-7-B03 (0-2)	SPLP East	Solid	1312	
500-100875-17	2618-7-B01 (0-2)	SPLP East	Solid	1312	
500-100875-18	2618-7-B158 (0-2)	SPLP East	Solid	1312	
500-100875-19	2618-7-B157 (0-2)	SPLP East	Solid	1312	
500-100875-20	2618-7-B141 (0-2)	SPLP East	Solid	1312	
LB 500-304208/1-B	Method Blank	SPLP East	Solid	1312	
LB 500-304208/1-C	Method Blank	SPLP East	Solid	1312	

### Analysis Batch: 304219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	7471B	303936
500-100875-1 DU	2618-7-B156 (0-2)	Total/NA	Solid	7471B	303936
500-100875-1 MS	2618-7-B156 (0-2)	Total/NA	Solid	7471B	303936
500-100875-1 MSD	2618-7-B156 (0-2)	Total/NA	Solid	7471B	303936
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	7471B	303936
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	7471B	303936
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	7471B	303936
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	7471B	303936
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	7471B	303936
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	7471B	303936
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	7471B	303936
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	7471B	303936
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	7471B	303936
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	7471B	303936
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	7471B	303936
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	7471B	303936
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	7471B	303936
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	7471B	303936

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Analysis Batch: 304219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	7471B	303936
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	7471B	303936
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	7471B	303936
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	7471B	303936
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	7471B	303936
LCS 500-303936/13-A	Lab Control Sample	Total/NA	Solid	7471B	303936
MB 500-303936/12-A	Method Blank	Total/NA	Solid	7471B	303936

### Analysis Batch: 304290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-1 DU	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-1 MS	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-1 MSD	2618-7-B156 (0-2)	Total/NA	Solid	6010B	303879
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	6010B	303879
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	6010B	303879
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	6010B	303879
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	6010B	303879
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	6010B	303879
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	6010B	303879
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	6010B	303879
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	6010B	303879
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	6010B	303879
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	6010B	303879
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	6010B	303879
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	6010B	303879
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	6010B	303879
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	6010B	303879
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	6010B	303879
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	6010B	303879
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	6010B	303879

### Leach Batch: 304396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	TCLP	Solid	1311	
500-100875-1 DU	2618-7-B156 (0-2)	TCLP	Solid	1311	
500-100875-1 MS	2618-7-B156 (0-2)	TCLP	Solid	1311	
500-100875-2	2618-7-B155 (0-2)	TCLP	Solid	1311	
500-100875-2 DU	2618-7-B155 (0-2)	TCLP	Solid	1311	
500-100875-2 MS	2618-7-B155 (0-2)	TCLP	Solid	1311	
500-100875-3	2618-7-B155 DUP (0-2)	TCLP	Solid	1311	
500-100875-4	2618-7-B154 (0-2)	TCLP	Solid	1311	
500-100875-5	2618-7-B153 (0-2)	TCLP	Solid	1311	
500-100875-6	2618-7-B152 (0-2)	TCLP	Solid	1311	
500-100875-7	2618-7-B151 (0-2)	TCLP	Solid	1311	
500-100875-8	2618-7-B150 (0-2)	TCLP	Solid	1311	
500-100875-9	2618-7-B149 (0-2)	TCLP	Solid	1311	
500-100875-10	2618-7-B148 (0-2)	TCLP	Solid	1311	
500-100875-11	2618-7-B07 (0-2)	TCLP	Solid	1311	
500-100875-12	2618-7-B06 (0-2)	TCLP	Solid	1311	
500-100875-13	2618-7-B05 (0-2)	TCLP	Solid	1311	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Leach Batch: 304396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-14	2618-7-B05 DUP (0-2)	TCLP	Solid	1311	
500-100875-15	2618-7-B04 (0-2)	TCLP	Solid	1311	
500-100875-16	2618-7-B03 (0-2)	TCLP	Solid	1311	
500-100875-17	2618-7-B01 (0-2)	TCLP	Solid	1311	
500-100875-18	2618-7-B158 (0-2)	TCLP	Solid	1311	
500-100875-19	2618-7-B157 (0-2)	TCLP	Solid	1311	
LB 500-304396/1-B	Method Blank	TCLP	Solid	1311	
LB 500-304396/1-C	Method Blank	TCLP	Solid	1311	

### Leach Batch: 304398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-20	2618-7-B141 (0-2)	TCLP	Solid	1311	
LB2 500-304398/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-304398/1-C	Method Blank	TCLP	Solid	1311	

### Prep Batch: 304417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	SPLP East	Solid	7470A	304208
500-100875-2	2618-7-B155 (0-2)	SPLP East	Solid	7470A	304208
500-100875-2 DU	2618-7-B155 (0-2)	SPLP East	Solid	7470A	304208
500-100875-2 MS	2618-7-B155 (0-2)	SPLP East	Solid	7470A	304208
500-100875-3	2618-7-B155 DUP (0-2)	SPLP East	Solid	7470A	304208
500-100875-4	2618-7-B154 (0-2)	SPLP East	Solid	7470A	304208
500-100875-5	2618-7-B153 (0-2)	SPLP East	Solid	7470A	304208
500-100875-6	2618-7-B152 (0-2)	SPLP East	Solid	7470A	304208
500-100875-7	2618-7-B151 (0-2)	SPLP East	Solid	7470A	304208
500-100875-8	2618-7-B150 (0-2)	SPLP East	Solid	7470A	304208
500-100875-9	2618-7-B149 (0-2)	SPLP East	Solid	7470A	304208
500-100875-10	2618-7-B148 (0-2)	SPLP East	Solid	7470A	304208
500-100875-11	2618-7-B07 (0-2)	SPLP East	Solid	7470A	304208
500-100875-12	2618-7-B06 (0-2)	SPLP East	Solid	7470A	304208
500-100875-13	2618-7-B05 (0-2)	SPLP East	Solid	7470A	304208
500-100875-14	2618-7-B05 DUP (0-2)	SPLP East	Solid	7470A	304208
500-100875-15	2618-7-B04 (0-2)	SPLP East	Solid	7470A	304208
500-100875-16	2618-7-B03 (0-2)	SPLP East	Solid	7470A	304208
500-100875-17	2618-7-B01 (0-2)	SPLP East	Solid	7470A	304208
500-100875-18	2618-7-B158 (0-2)	SPLP East	Solid	7470A	304208
500-100875-19	2618-7-B157 (0-2)	SPLP East	Solid	7470A	304208
500-100875-20	2618-7-B141 (0-2)	SPLP East	Solid	7470A	304208
LB 500-304208/1-B	Method Blank	SPLP East	Solid	7470A	304208
LCS 500-304417/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304417/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 304421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	SPLP East	Solid	3010A	304208
500-100875-1 DU	2618-7-B156 (0-2)	SPLP East	Solid	3010A	304208
500-100875-1 MS	2618-7-B156 (0-2)	SPLP East	Solid	3010A	304208
500-100875-2	2618-7-B155 (0-2)	SPLP East	Solid	3010A	304208
500-100875-3	2618-7-B155 DUP (0-2)	SPLP East	Solid	3010A	304208
500-100875-4	2618-7-B154 (0-2)	SPLP East	Solid	3010A	304208

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Prep Batch: 304421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-5	2618-7-B153 (0-2)	SPLP East	Solid	3010A	304208
500-100875-6	2618-7-B152 (0-2)	SPLP East	Solid	3010A	304208
500-100875-7	2618-7-B151 (0-2)	SPLP East	Solid	3010A	304208
500-100875-8	2618-7-B150 (0-2)	SPLP East	Solid	3010A	304208
500-100875-9	2618-7-B149 (0-2)	SPLP East	Solid	3010A	304208
500-100875-10	2618-7-B148 (0-2)	SPLP East	Solid	3010A	304208
500-100875-11	2618-7-B07 (0-2)	SPLP East	Solid	3010A	304208
500-100875-12	2618-7-B06 (0-2)	SPLP East	Solid	3010A	304208
500-100875-13	2618-7-B05 (0-2)	SPLP East	Solid	3010A	304208
500-100875-14	2618-7-B05 DUP (0-2)	SPLP East	Solid	3010A	304208
500-100875-15	2618-7-B04 (0-2)	SPLP East	Solid	3010A	304208
500-100875-16	2618-7-B03 (0-2)	SPLP East	Solid	3010A	304208
500-100875-17	2618-7-B01 (0-2)	SPLP East	Solid	3010A	304208
500-100875-18	2618-7-B158 (0-2)	SPLP East	Solid	3010A	304208
500-100875-19	2618-7-B157 (0-2)	SPLP East	Solid	3010A	304208
500-100875-20	2618-7-B141 (0-2)	SPLP East	Solid	3010A	304208
LB 500-304208/1-C	Method Blank	SPLP East	Solid	3010A	304208
LCS 500-304421/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	SPLP East	Solid	6020A	304421
500-100875-1 DU	2618-7-B156 (0-2)	SPLP East	Solid	6020A	304421
500-100875-1 MS	2618-7-B156 (0-2)	SPLP East	Solid	6020A	304421
500-100875-2	2618-7-B155 (0-2)	SPLP East	Solid	6020A	304421
500-100875-3	2618-7-B155 DUP (0-2)	SPLP East	Solid	6020A	304421
500-100875-4	2618-7-B154 (0-2)	SPLP East	Solid	6020A	304421
500-100875-5	2618-7-B153 (0-2)	SPLP East	Solid	6020A	304421
500-100875-6	2618-7-B152 (0-2)	SPLP East	Solid	6020A	304421
500-100875-7	2618-7-B151 (0-2)	SPLP East	Solid	6020A	304421
500-100875-8	2618-7-B150 (0-2)	SPLP East	Solid	6020A	304421
500-100875-9	2618-7-B149 (0-2)	SPLP East	Solid	6020A	304421
500-100875-10	2618-7-B148 (0-2)	SPLP East	Solid	6020A	304421
500-100875-11	2618-7-B07 (0-2)	SPLP East	Solid	6020A	304421
500-100875-12	2618-7-B06 (0-2)	SPLP East	Solid	6020A	304421
500-100875-13	2618-7-B05 (0-2)	SPLP East	Solid	6020A	304421
500-100875-14	2618-7-B05 DUP (0-2)	SPLP East	Solid	6020A	304421
500-100875-15	2618-7-B04 (0-2)	SPLP East	Solid	6020A	304421
500-100875-16	2618-7-B03 (0-2)	SPLP East	Solid	6020A	304421
500-100875-17	2618-7-B01 (0-2)	SPLP East	Solid	6020A	304421
500-100875-18	2618-7-B158 (0-2)	SPLP East	Solid	6020A	304421
500-100875-19	2618-7-B157 (0-2)	SPLP East	Solid	6020A	304421
500-100875-20	2618-7-B141 (0-2)	SPLP East	Solid	6020A	304421
LB 500-304208/1-C	Method Blank	SPLP East	Solid	6020A	304421
LCS 500-304421/2-A	Lab Control Sample	Total/NA	Solid	6020A	304421

### Prep Batch: 304531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	TCLP	Solid	3010A	304396
500-100875-1 DU	2618-7-B156 (0-2)	TCLP	Solid	3010A	304396
500-100875-1 MS	2618-7-B156 (0-2)	TCLP	Solid	3010A	304396

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Prep Batch: 304531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-2	2618-7-B155 (0-2)	TCLP	Solid	3010A	304396
500-100875-3	2618-7-B155 DUP (0-2)	TCLP	Solid	3010A	304396
500-100875-4	2618-7-B154 (0-2)	TCLP	Solid	3010A	304396
500-100875-5	2618-7-B153 (0-2)	TCLP	Solid	3010A	304396
500-100875-6	2618-7-B152 (0-2)	TCLP	Solid	3010A	304396
500-100875-7	2618-7-B151 (0-2)	TCLP	Solid	3010A	304396
500-100875-8	2618-7-B150 (0-2)	TCLP	Solid	3010A	304396
500-100875-9	2618-7-B149 (0-2)	TCLP	Solid	3010A	304396
500-100875-10	2618-7-B148 (0-2)	TCLP	Solid	3010A	304396
500-100875-11	2618-7-B07 (0-2)	TCLP	Solid	3010A	304396
500-100875-12	2618-7-B06 (0-2)	TCLP	Solid	3010A	304396
500-100875-13	2618-7-B05 (0-2)	TCLP	Solid	3010A	304396
500-100875-14	2618-7-B05 DUP (0-2)	TCLP	Solid	3010A	304396
500-100875-15	2618-7-B04 (0-2)	TCLP	Solid	3010A	304396
500-100875-16	2618-7-B03 (0-2)	TCLP	Solid	3010A	304396
500-100875-17	2618-7-B01 (0-2)	TCLP	Solid	3010A	304396
500-100875-18	2618-7-B158 (0-2)	TCLP	Solid	3010A	304396
500-100875-19	2618-7-B157 (0-2)	TCLP	Solid	3010A	304396
500-100875-20	2618-7-B141 (0-2)	TCLP	Solid	3010A	304398
LB 500-304396/1-B	Method Blank	TCLP	Solid	3010A	304396
LB2 500-304398/1-B	Method Blank	TCLP	Solid	3010A	304398
LCS 500-304531/3-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	SPLP East	Solid	7470A	304417
500-100875-2	2618-7-B155 (0-2)	SPLP East	Solid	7470A	304417
500-100875-2 DU	2618-7-B155 (0-2)	SPLP East	Solid	7470A	304417
500-100875-2 MS	2618-7-B155 (0-2)	SPLP East	Solid	7470A	304417
500-100875-3	2618-7-B155 DUP (0-2)	SPLP East	Solid	7470A	304417
500-100875-4	2618-7-B154 (0-2)	SPLP East	Solid	7470A	304417
500-100875-5	2618-7-B153 (0-2)	SPLP East	Solid	7470A	304417
500-100875-6	2618-7-B152 (0-2)	SPLP East	Solid	7470A	304417
500-100875-7	2618-7-B151 (0-2)	SPLP East	Solid	7470A	304417
500-100875-8	2618-7-B150 (0-2)	SPLP East	Solid	7470A	304417
500-100875-9	2618-7-B149 (0-2)	SPLP East	Solid	7470A	304417
500-100875-10	2618-7-B148 (0-2)	SPLP East	Solid	7470A	304417
500-100875-11	2618-7-B07 (0-2)	SPLP East	Solid	7470A	304417
500-100875-12	2618-7-B06 (0-2)	SPLP East	Solid	7470A	304417
500-100875-13	2618-7-B05 (0-2)	SPLP East	Solid	7470A	304417
500-100875-14	2618-7-B05 DUP (0-2)	SPLP East	Solid	7470A	304417
500-100875-15	2618-7-B04 (0-2)	SPLP East	Solid	7470A	304417
500-100875-16	2618-7-B03 (0-2)	SPLP East	Solid	7470A	304417
500-100875-17	2618-7-B01 (0-2)	SPLP East	Solid	7470A	304417
500-100875-18	2618-7-B158 (0-2)	SPLP East	Solid	7470A	304417
500-100875-19	2618-7-B157 (0-2)	SPLP East	Solid	7470A	304417
500-100875-20	2618-7-B141 (0-2)	SPLP East	Solid	7470A	304417
LB 500-304208/1-B	Method Blank	SPLP East	Solid	7470A	304417
LCS 500-304417/13-A	Lab Control Sample	Total/NA	Solid	7470A	304417
MB 500-304417/12-A	Method Blank	Total/NA	Solid	7470A	304417

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Prep Batch: 304581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	TCLP	Solid	7470A	304396
500-100875-2	2618-7-B155 (0-2)	TCLP	Solid	7470A	304396
500-100875-2 DU	2618-7-B155 (0-2)	TCLP	Solid	7470A	304396
500-100875-2 MS	2618-7-B155 (0-2)	TCLP	Solid	7470A	304396
500-100875-3	2618-7-B155 DUP (0-2)	TCLP	Solid	7470A	304396
500-100875-4	2618-7-B154 (0-2)	TCLP	Solid	7470A	304396
500-100875-5	2618-7-B153 (0-2)	TCLP	Solid	7470A	304396
500-100875-6	2618-7-B152 (0-2)	TCLP	Solid	7470A	304396
500-100875-7	2618-7-B151 (0-2)	TCLP	Solid	7470A	304396
500-100875-8	2618-7-B150 (0-2)	TCLP	Solid	7470A	304396
500-100875-9	2618-7-B149 (0-2)	TCLP	Solid	7470A	304396
500-100875-10	2618-7-B148 (0-2)	TCLP	Solid	7470A	304396
500-100875-11	2618-7-B07 (0-2)	TCLP	Solid	7470A	304396
500-100875-12	2618-7-B06 (0-2)	TCLP	Solid	7470A	304396
500-100875-13	2618-7-B05 (0-2)	TCLP	Solid	7470A	304396
500-100875-14	2618-7-B05 DUP (0-2)	TCLP	Solid	7470A	304396
500-100875-15	2618-7-B04 (0-2)	TCLP	Solid	7470A	304396
500-100875-16	2618-7-B03 (0-2)	TCLP	Solid	7470A	304396
500-100875-17	2618-7-B01 (0-2)	TCLP	Solid	7470A	304396
500-100875-18	2618-7-B158 (0-2)	TCLP	Solid	7470A	304396
500-100875-19	2618-7-B157 (0-2)	TCLP	Solid	7470A	304396
500-100875-20	2618-7-B141 (0-2)	TCLP	Solid	7470A	304398
LB 500-304396/1-C	Method Blank	TCLP	Solid	7470A	304396
LB2 500-304398/1-C	Method Blank	TCLP	Solid	7470A	304398
LCS 500-304581/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304581/12-A	Method Blank	Total/NA	Solid	7470A	

### Analysis Batch: 304648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	SPLP East	Solid	6010B	304421
500-100875-1	2618-7-B156 (0-2)	TCLP	Solid	6010B	304531
500-100875-1 DU	2618-7-B156 (0-2)	SPLP East	Solid	6010B	304421
500-100875-1 DU	2618-7-B156 (0-2)	TCLP	Solid	6010B	304531
500-100875-1 MS	2618-7-B156 (0-2)	SPLP East	Solid	6010B	304421
500-100875-1 MS	2618-7-B156 (0-2)	TCLP	Solid	6010B	304531
500-100875-2	2618-7-B155 (0-2)	SPLP East	Solid	6010B	304421
500-100875-2	2618-7-B155 (0-2)	TCLP	Solid	6010B	304531
500-100875-3	2618-7-B155 DUP (0-2)	SPLP East	Solid	6010B	304421
500-100875-3	2618-7-B155 DUP (0-2)	TCLP	Solid	6010B	304531
500-100875-4	2618-7-B154 (0-2)	SPLP East	Solid	6010B	304421
500-100875-4	2618-7-B154 (0-2)	TCLP	Solid	6010B	304531
500-100875-5	2618-7-B153 (0-2)	SPLP East	Solid	6010B	304421
500-100875-5	2618-7-B153 (0-2)	TCLP	Solid	6010B	304531
500-100875-6	2618-7-B152 (0-2)	SPLP East	Solid	6010B	304421
500-100875-6	2618-7-B152 (0-2)	TCLP	Solid	6010B	304531
500-100875-7	2618-7-B151 (0-2)	SPLP East	Solid	6010B	304421
500-100875-7	2618-7-B151 (0-2)	TCLP	Solid	6010B	304531
500-100875-8	2618-7-B150 (0-2)	SPLP East	Solid	6010B	304421
500-100875-8	2618-7-B150 (0-2)	TCLP	Solid	6010B	304531
500-100875-9	2618-7-B149 (0-2)	SPLP East	Solid	6010B	304421
500-100875-9	2618-7-B149 (0-2)	TCLP	Solid	6010B	304531

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Analysis Batch: 304648 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-10	2618-7-B148 (0-2)	SPLP East	Solid	6010B	304421
500-100875-10	2618-7-B148 (0-2)	TCLP	Solid	6010B	304531
500-100875-11	2618-7-B07 (0-2)	SPLP East	Solid	6010B	304421
500-100875-11	2618-7-B07 (0-2)	TCLP	Solid	6010B	304531
500-100875-12	2618-7-B06 (0-2)	SPLP East	Solid	6010B	304421
500-100875-12	2618-7-B06 (0-2)	TCLP	Solid	6010B	304531
500-100875-13	2618-7-B05 (0-2)	SPLP East	Solid	6010B	304421
500-100875-13	2618-7-B05 (0-2)	TCLP	Solid	6010B	304531
500-100875-14	2618-7-B05 DUP (0-2)	SPLP East	Solid	6010B	304421
500-100875-14	2618-7-B05 DUP (0-2)	TCLP	Solid	6010B	304531
500-100875-15	2618-7-B04 (0-2)	SPLP East	Solid	6010B	304421
500-100875-15	2618-7-B04 (0-2)	TCLP	Solid	6010B	304531
500-100875-16	2618-7-B03 (0-2)	SPLP East	Solid	6010B	304421
500-100875-16	2618-7-B03 (0-2)	TCLP	Solid	6010B	304531
500-100875-17	2618-7-B01 (0-2)	SPLP East	Solid	6010B	304421
500-100875-17	2618-7-B01 (0-2)	TCLP	Solid	6010B	304531
500-100875-18	2618-7-B158 (0-2)	SPLP East	Solid	6010B	304421
500-100875-18	2618-7-B158 (0-2)	TCLP	Solid	6010B	304531
500-100875-19	2618-7-B157 (0-2)	SPLP East	Solid	6010B	304421
500-100875-19	2618-7-B157 (0-2)	TCLP	Solid	6010B	304531
500-100875-20	2618-7-B141 (0-2)	SPLP East	Solid	6010B	304421
500-100875-20	2618-7-B141 (0-2)	TCLP	Solid	6010B	304531
LB 500-304208/1-C	Method Blank	SPLP East	Solid	6010B	304421
LB 500-304396/1-B	Method Blank	TCLP	Solid	6010B	304531
LB2 500-304398/1-B	Method Blank	TCLP	Solid	6010B	304531
LCS 500-304421/2-A	Lab Control Sample	Total/NA	Solid	6010B	304421
LCS 500-304531/3-A	Lab Control Sample	Total/NA	Solid	6010B	304531

### Analysis Batch: 304699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	TCLP	Solid	6020A	304531
500-100875-1 DU	2618-7-B156 (0-2)	TCLP	Solid	6020A	304531
500-100875-2	2618-7-B155 (0-2)	TCLP	Solid	6020A	304531
500-100875-3	2618-7-B155 DUP (0-2)	TCLP	Solid	6020A	304531
500-100875-4	2618-7-B154 (0-2)	TCLP	Solid	6020A	304531
500-100875-5	2618-7-B153 (0-2)	TCLP	Solid	6020A	304531
500-100875-6	2618-7-B152 (0-2)	TCLP	Solid	6020A	304531
500-100875-7	2618-7-B151 (0-2)	TCLP	Solid	6020A	304531
500-100875-8	2618-7-B150 (0-2)	TCLP	Solid	6020A	304531
500-100875-9	2618-7-B149 (0-2)	TCLP	Solid	6020A	304531
500-100875-10	2618-7-B148 (0-2)	TCLP	Solid	6020A	304531
500-100875-11	2618-7-B07 (0-2)	TCLP	Solid	6020A	304531
500-100875-12	2618-7-B06 (0-2)	TCLP	Solid	6020A	304531
500-100875-13	2618-7-B05 (0-2)	TCLP	Solid	6020A	304531
500-100875-14	2618-7-B05 DUP (0-2)	TCLP	Solid	6020A	304531
500-100875-15	2618-7-B04 (0-2)	TCLP	Solid	6020A	304531
500-100875-16	2618-7-B03 (0-2)	TCLP	Solid	6020A	304531
500-100875-17	2618-7-B01 (0-2)	TCLP	Solid	6020A	304531
500-100875-18	2618-7-B158 (0-2)	TCLP	Solid	6020A	304531
500-100875-19	2618-7-B157 (0-2)	TCLP	Solid	6020A	304531
500-100875-20	2618-7-B141 (0-2)	TCLP	Solid	6020A	304531

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Metals (Continued)

### Analysis Batch: 304699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-304396/1-B	Method Blank	TCLP	Solid	6020A	304531
LB2 500-304398/1-B	Method Blank	TCLP	Solid	6020A	304531
LCS 500-304531/3-A	Lab Control Sample	Total/NA	Solid	6020A	304531

### Analysis Batch: 304727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	TCLP	Solid	7470A	304581
500-100875-2	2618-7-B155 (0-2)	TCLP	Solid	7470A	304581
500-100875-2 DU	2618-7-B155 (0-2)	TCLP	Solid	7470A	304581
500-100875-2 MS	2618-7-B155 (0-2)	TCLP	Solid	7470A	304581
500-100875-3	2618-7-B155 DUP (0-2)	TCLP	Solid	7470A	304581
500-100875-4	2618-7-B154 (0-2)	TCLP	Solid	7470A	304581
500-100875-5	2618-7-B153 (0-2)	TCLP	Solid	7470A	304581
500-100875-6	2618-7-B152 (0-2)	TCLP	Solid	7470A	304581
500-100875-7	2618-7-B151 (0-2)	TCLP	Solid	7470A	304581
500-100875-8	2618-7-B150 (0-2)	TCLP	Solid	7470A	304581
500-100875-9	2618-7-B149 (0-2)	TCLP	Solid	7470A	304581
500-100875-10	2618-7-B148 (0-2)	TCLP	Solid	7470A	304581
500-100875-11	2618-7-B07 (0-2)	TCLP	Solid	7470A	304581
500-100875-12	2618-7-B06 (0-2)	TCLP	Solid	7470A	304581
500-100875-13	2618-7-B05 (0-2)	TCLP	Solid	7470A	304581
500-100875-14	2618-7-B05 DUP (0-2)	TCLP	Solid	7470A	304581
500-100875-15	2618-7-B04 (0-2)	TCLP	Solid	7470A	304581
500-100875-16	2618-7-B03 (0-2)	TCLP	Solid	7470A	304581
500-100875-17	2618-7-B01 (0-2)	TCLP	Solid	7470A	304581
500-100875-18	2618-7-B158 (0-2)	TCLP	Solid	7470A	304581
500-100875-19	2618-7-B157 (0-2)	TCLP	Solid	7470A	304581
500-100875-20	2618-7-B141 (0-2)	TCLP	Solid	7470A	304581
LB 500-304396/1-C	Method Blank	TCLP	Solid	7470A	304581
LB2 500-304398/1-C	Method Blank	TCLP	Solid	7470A	304581
LCS 500-304581/13-A	Lab Control Sample	Total/NA	Solid	7470A	304581
MB 500-304581/12-A	Method Blank	Total/NA	Solid	7470A	304581

## General Chemistry

### Analysis Batch: 303429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	Moisture	
500-100875-1 DU	2618-7-B156 (0-2)	Total/NA	Solid	Moisture	
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	Moisture	
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	Moisture	
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	Moisture	
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	Moisture	
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	Moisture	
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	Moisture	
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	Moisture	
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	Moisture	
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	Moisture	
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	Moisture	
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	Moisture	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## General Chemistry (Continued)

### Analysis Batch: 303429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	Moisture	
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	Moisture	
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	Moisture	
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	Moisture	
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	Moisture	
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	Moisture	
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	Moisture	
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	Moisture	

### Analysis Batch: 303885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	9045D	
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	9045D	
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	9045D	
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	9045D	
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	9045D	
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	9045D	
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	9045D	

### Analysis Batch: 304107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	9045D	
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	9045D	
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	9045D	
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	9045D	
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	9045D	
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	9045D	
500-100875-13 DU	2618-7-B05 (0-2)	Total/NA	Solid	9045D	
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	9045D	
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	9045D	
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	9045D	
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	9045D	
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	9045D	
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	9045D	
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	9045D	

### Prep Batch: 304221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	9010B	
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	9010B	
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	9010B	
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	9010B	
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	9010B	
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	9010B	
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	9010B	
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	9010B	
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	9010B	
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	9010B	
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	9010B	
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	9010B	
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	9010B	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## General Chemistry (Continued)

### Prep Batch: 304221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	9010B	
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	9010B	
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	9010B	
LCS 500-304221/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-304221/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 304333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-1	2618-7-B156 (0-2)	Total/NA	Solid	9014	304221
500-100875-2	2618-7-B155 (0-2)	Total/NA	Solid	9014	304221
500-100875-3	2618-7-B155 DUP (0-2)	Total/NA	Solid	9014	304221
500-100875-4	2618-7-B154 (0-2)	Total/NA	Solid	9014	304221
500-100875-5	2618-7-B153 (0-2)	Total/NA	Solid	9014	304221
500-100875-6	2618-7-B152 (0-2)	Total/NA	Solid	9014	304221
500-100875-7	2618-7-B151 (0-2)	Total/NA	Solid	9014	304221
500-100875-8	2618-7-B150 (0-2)	Total/NA	Solid	9014	304221
500-100875-9	2618-7-B149 (0-2)	Total/NA	Solid	9014	304221
500-100875-10	2618-7-B148 (0-2)	Total/NA	Solid	9014	304221
500-100875-11	2618-7-B07 (0-2)	Total/NA	Solid	9014	304221
500-100875-12	2618-7-B06 (0-2)	Total/NA	Solid	9014	304221
500-100875-13	2618-7-B05 (0-2)	Total/NA	Solid	9014	304221
500-100875-14	2618-7-B05 DUP (0-2)	Total/NA	Solid	9014	304221
500-100875-15	2618-7-B04 (0-2)	Total/NA	Solid	9014	304221
500-100875-16	2618-7-B03 (0-2)	Total/NA	Solid	9014	304221
LCS 500-304221/2-A	Lab Control Sample	Total/NA	Solid	9014	304221
MB 500-304221/1-A	Method Blank	Total/NA	Solid	9014	304221

### Prep Batch: 304344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	9010B	
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	9010B	
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	9010B	
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	9010B	
LCS 500-304344/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-304344/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 304392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-100875-17	2618-7-B01 (0-2)	Total/NA	Solid	9014	304344
500-100875-18	2618-7-B158 (0-2)	Total/NA	Solid	9014	304344
500-100875-19	2618-7-B157 (0-2)	Total/NA	Solid	9014	304344
500-100875-20	2618-7-B141 (0-2)	Total/NA	Solid	9014	304344
LCS 500-304344/2-A	Lab Control Sample	Total/NA	Solid	9014	304344
MB 500-304344/1-A	Method Blank	Total/NA	Solid	9014	304344

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-100875-1	2618-7-B156 (0-2)	106	103	126	117
500-100875-2	2618-7-B155 (0-2)	102	102	122	114
500-100875-3	2618-7-B155 DUP (0-2)	110	103	127	116
500-100875-4	2618-7-B154 (0-2)	102	102	120	116
500-100875-5	2618-7-B153 (0-2)	104	102	120	113
500-100875-6	2618-7-B152 (0-2)	103	104	122	111
500-100875-7	2618-7-B151 (0-2)	108	98	120	113
500-100875-8	2618-7-B150 (0-2)	104	102	120	118
500-100875-9	2618-7-B149 (0-2)	105	106	128	111
500-100875-10	2618-7-B148 (0-2)	103	102	122	116
500-100875-11	2618-7-B07 (0-2)	106	102	122	113
500-100875-12	2618-7-B06 (0-2)	103	101	121	115
500-100875-13	2618-7-B05 (0-2)	106	101	121	114
500-100875-14	2618-7-B05 DUP (0-2)	101	102	123	111
500-100875-15	2618-7-B04 (0-2)	106	101	125	114
500-100875-16	2618-7-B03 (0-2)	103	106	126	114
500-100875-17	2618-7-B01 (0-2)	102	103	119	111
500-100875-18	2618-7-B158 (0-2)	103	83	119	116
500-100875-19	2618-7-B157 (0-2)	103	104	132	115
500-100875-20	2618-7-B141 (0-2)	104	104	119	118
LCS 500-303849/4	Lab Control Sample	110	97	107	120
LCS 500-304054/5	Lab Control Sample	110	105	119	116
LCSD 500-303849/5	Lab Control Sample Dup	112	100	106	122
LCSD 500-304054/6	Lab Control Sample Dup	112	102	113	121
MB 500-303849/6	Method Blank	103	97	115	115
MB 500-304054/7	Method Blank	109	104	122	116

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
500-100875-1	2618-7-B156 (0-2)	94	95	84	89	99	97
500-100875-1 MS	2618-7-B156 (0-2)	89	97	80	96	192 X	88
500-100875-1 MSD	2618-7-B156 (0-2)	89	94	89	94	194 X	89
500-100875-2	2618-7-B155 (0-2)	97	94	82	93	93	71
500-100875-3	2618-7-B155 DUP (0-2)	90	90	82	86	92	57
500-100875-4	2618-7-B154 (0-2)	111	109	102	113 X	237 X	99
500-100875-5	2618-7-B153 (0-2)	90	89	84	93	95	80
500-100875-6	2618-7-B152 (0-2)	96	100	93	105	172 X	92
500-100875-7	2618-7-B151 (0-2)	91	97	99	98	96	69
500-100875-8	2618-7-B150 (0-2)	97	99	90	100	176 X	92

TestAmerica Chicago

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
500-100875-9	2618-7-B149 (0-2)	89	88	79	87	106	65
500-100875-10	2618-7-B148 (0-2)	87	101	95	103	94	61
500-100875-11	2618-7-B07 (0-2)	90	97	95	100	98	81
500-100875-12	2618-7-B06 (0-2)	97	98	87	106	171 X	66
500-100875-13	2618-7-B05 (0-2)	93	97	99	101	100	72
500-100875-14	2618-7-B05 DUP (0-2)	85	95	91	97	97	77
500-100875-15	2618-7-B04 (0-2)	90	89	80	86	101	60
500-100875-16	2618-7-B03 (0-2)	103	100	89	106	219 X	85
500-100875-17	2618-7-B01 (0-2)	98	99	87	106	198 X	66
500-100875-18	2618-7-B158 (0-2)	94	95	86	101	179 X	69
500-100875-19	2618-7-B157 (0-2)	98	93	80	98	209 X	82
500-100875-20	2618-7-B141 (0-2)	91	94	83	87	123	57
LCS 500-303853/2-A	Lab Control Sample	78	84	82	83	76	88
MB 500-303853/1-A	Method Blank	78	91	82	82	79	70

### Surrogate Legend

FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol  
 NBZ = Nitrobenzene-d5  
 PHL = Phenol-d5  
 TPH = Terphenyl-d14  
 TBP = 2,4,6-Tribromophenol

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-303849/6**  
**Matrix: Solid**  
**Analysis Batch: 303849**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/11/15 11:08	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/11/15 11:08	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/11/15 11:08	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/11/15 11:08	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/11/15 11:08	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/11/15 11:08	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/11/15 11:08	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/11/15 11:08	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/11/15 11:08	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/11/15 11:08	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/11/15 11:08	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/11/15 11:08	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/11/15 11:08	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/11/15 11:08	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/11/15 11:08	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/11/15 11:08	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/11/15 11:08	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/11/15 11:08	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/11/15 11:08	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/11/15 11:08	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/11/15 11:08	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/11/15 11:08	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/11/15 11:08	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/11/15 11:08	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/11/15 11:08	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/11/15 11:08	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/11/15 11:08	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/11/15 11:08	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/11/15 11:08	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/11/15 11:08	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/11/15 11:08	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/11/15 11:08	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/11/15 11:08	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/11/15 11:08	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/11/15 11:08	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/11/15 11:08	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/11/15 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		09/11/15 11:08	1
Dibromofluoromethane	97		75 - 120		09/11/15 11:08	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134		09/11/15 11:08	1
Toluene-d8 (Surr)	115		75 - 122		09/11/15 11:08	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303849/4**

**Matrix: Solid**

**Analysis Batch: 303849**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0383		mg/Kg		77	50 - 133
Benzene	0.0500	0.0457		mg/Kg		91	70 - 120
Bromodichloromethane	0.0500	0.0417		mg/Kg		83	69 - 120
Bromoform	0.0500	0.0354		mg/Kg		71	51 - 127
Bromomethane	0.0500	0.0348		mg/Kg		70	69 - 120
2-Butanone (MEK)	0.0500	0.0373		mg/Kg		75	50 - 148
Carbon disulfide	0.0500	0.0416		mg/Kg		83	58 - 120
Carbon tetrachloride	0.0500	0.0428		mg/Kg		86	51 - 124
Chlorobenzene	0.0500	0.0481		mg/Kg		96	70 - 120
Chloroethane	0.0500	0.0553		mg/Kg		111	49 - 125
Chloroform	0.0500	0.0458		mg/Kg		92	70 - 120
Chloromethane	0.0500	0.0396		mg/Kg		79	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 120
Dibromochloromethane	0.0500	0.0426		mg/Kg		85	69 - 126
1,1-Dichloroethane	0.0500	0.0536		mg/Kg		107	70 - 120
1,2-Dichloroethane	0.0500	0.0487		mg/Kg		97	70 - 128
1,1-Dichloroethene	0.0500	0.0439		mg/Kg		88	67 - 120
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 120
Ethylbenzene	0.0500	0.0486		mg/Kg		97	70 - 120
2-Hexanone	0.0500	0.0412		mg/Kg		82	50 - 150
Methylene Chloride	0.0500	0.0458		mg/Kg		92	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0414		mg/Kg		83	50 - 150
Methyl tert-butyl ether	0.0500	0.0428		mg/Kg		86	70 - 120
Styrene	0.0500	0.0471		mg/Kg		94	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0510		mg/Kg		102	70 - 133
Tetrachloroethene	0.0500	0.0450		mg/Kg		90	70 - 120
Toluene	0.0500	0.0497		mg/Kg		99	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 120
1,1,1-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 120
1,1,2-Trichloroethane	0.0500	0.0463		mg/Kg		93	70 - 120
Trichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120
Vinyl acetate	0.0500	0.0448		mg/Kg		90	60 - 150
Vinyl chloride	0.0500	0.0478		mg/Kg		96	69 - 120
Xylenes, Total	0.100	0.103		mg/Kg		103	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 122
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		70 - 134
Toluene-d8 (Surr)	120		75 - 122

**Lab Sample ID: LCSD 500-303849/5**

**Matrix: Solid**

**Analysis Batch: 303849**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0402		mg/Kg		80	50 - 133	5	30
Benzene	0.0500	0.0468		mg/Kg		94	70 - 120	2	30

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-303849/5**  
**Matrix: Solid**  
**Analysis Batch: 303849**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0441		mg/Kg		88	69 - 120	6	30
Bromoform	0.0500	0.0348		mg/Kg		70	51 - 127	2	30
Bromomethane	0.0500	0.0379		mg/Kg		76	69 - 120	9	30
2-Butanone (MEK)	0.0500	0.0418		mg/Kg		84	50 - 148	11	30
Carbon disulfide	0.0500	0.0431		mg/Kg		86	58 - 120	3	30
Carbon tetrachloride	0.0500	0.0448		mg/Kg		90	51 - 124	5	30
Chlorobenzene	0.0500	0.0492		mg/Kg		98	70 - 120	2	30
Chloroethane	0.0500	0.0557		mg/Kg		111	49 - 125	1	30
Chloroform	0.0500	0.0488		mg/Kg		98	70 - 120	6	30
Chloromethane	0.0500	0.0408		mg/Kg		82	63 - 126	3	30
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 120	5	30
Dibromochloromethane	0.0500	0.0438		mg/Kg		88	69 - 126	3	30
1,1-Dichloroethane	0.0500	0.0552		mg/Kg		110	70 - 120	3	30
1,2-Dichloroethane	0.0500	0.0545		mg/Kg		109	70 - 128	11	30
1,1-Dichloroethene	0.0500	0.0475		mg/Kg		95	67 - 120	8	30
1,2-Dichloropropane	0.0500	0.0539		mg/Kg		108	70 - 120	4	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	70 - 120	2	30
2-Hexanone	0.0500	0.0462		mg/Kg		92	50 - 150	11	30
Methylene Chloride	0.0500	0.0472		mg/Kg		94	70 - 120	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0457		mg/Kg		91	50 - 150	10	30
Methyl tert-butyl ether	0.0500	0.0461		mg/Kg		92	70 - 120	7	30
Styrene	0.0500	0.0476		mg/Kg		95	70 - 120	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0523		mg/Kg		105	70 - 133	2	30
Tetrachloroethene	0.0500	0.0460		mg/Kg		92	70 - 120	2	30
Toluene	0.0500	0.0514		mg/Kg		103	70 - 120	3	30
trans-1,2-Dichloroethene	0.0500	0.0460		mg/Kg		92	70 - 120	4	30
1,1,1-Trichloroethane	0.0500	0.0485		mg/Kg		97	70 - 120	5	30
1,1,2-Trichloroethane	0.0500	0.0476		mg/Kg		95	70 - 120	3	30
Trichloroethene	0.0500	0.0455		mg/Kg		91	70 - 120	2	30
Vinyl acetate	0.0500	0.0465		mg/Kg		93	60 - 150	4	30
Vinyl chloride	0.0500	0.0501		mg/Kg		100	69 - 120	5	30
Xylenes, Total	0.100	0.105		mg/Kg		105	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	112		70 - 122
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	106		70 - 134
Toluene-d8 (Surr)	122		75 - 122

**Lab Sample ID: MB 500-304054/7**  
**Matrix: Solid**  
**Analysis Batch: 304054**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/14/15 10:10	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 10:10	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/14/15 10:10	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-304054/7**

**Matrix: Solid**

**Analysis Batch: 304054**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 10:10	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/14/15 10:10	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/14/15 10:10	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 10:10	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/14/15 10:10	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/14/15 10:10	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 10:10	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 10:10	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/14/15 10:10	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/14/15 10:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/14/15 10:10	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/14/15 10:10	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 10:10	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 10:10	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/14/15 10:10	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 10:10	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 10:10	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/14/15 10:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122		09/14/15 10:10	1
Dibromofluoromethane	104		75 - 120		09/14/15 10:10	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134		09/14/15 10:10	1
Toluene-d8 (Surr)	116		75 - 122		09/14/15 10:10	1

**Lab Sample ID: LCS 500-304054/5**

**Matrix: Solid**

**Analysis Batch: 304054**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0511		mg/Kg		102	50 - 133
Benzene	0.0500	0.0491		mg/Kg		98	70 - 120
Bromodichloromethane	0.0500	0.0472		mg/Kg		94	69 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-304054/5**  
**Matrix: Solid**  
**Analysis Batch: 304054**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0364		mg/Kg		73	51 - 127
Bromomethane	0.0500	0.0368		mg/Kg		74	69 - 120
2-Butanone (MEK)	0.0500	0.0506		mg/Kg		101	50 - 148
Carbon disulfide	0.0500	0.0461		mg/Kg		92	58 - 120
Carbon tetrachloride	0.0500	0.0464		mg/Kg		93	51 - 124
Chlorobenzene	0.0500	0.0494		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0606		mg/Kg		121	49 - 125
Chloroform	0.0500	0.0498		mg/Kg		100	70 - 120
Chloromethane	0.0500	0.0428		mg/Kg		86	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 120
Dibromochloromethane	0.0500	0.0446		mg/Kg		89	69 - 126
1,1-Dichloroethane	0.0500	0.0594		mg/Kg		119	70 - 120
1,2-Dichloroethane	0.0500	0.0554		mg/Kg		111	70 - 128
1,1-Dichloroethene	0.0500	0.0485		mg/Kg		97	67 - 120
1,2-Dichloropropane	0.0500	0.0563		mg/Kg		113	70 - 120
Ethylbenzene	0.0500	0.0501		mg/Kg		100	70 - 120
2-Hexanone	0.0500	0.0513		mg/Kg		103	50 - 150
Methylene Chloride	0.0500	0.0502		mg/Kg		100	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0479		mg/Kg		96	50 - 150
Methyl tert-butyl ether	0.0500	0.0500		mg/Kg		100	70 - 120
Styrene	0.0500	0.0474		mg/Kg		95	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0576		mg/Kg		115	70 - 133
Tetrachloroethene	0.0500	0.0450		mg/Kg		90	70 - 120
Toluene	0.0500	0.0508		mg/Kg		102	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 120
1,1,2-Trichloroethane	0.0500	0.0517		mg/Kg		103	70 - 120
Trichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120
Vinyl acetate	0.0500	0.0483		mg/Kg		97	60 - 150
Vinyl chloride	0.0500	0.0512		mg/Kg		102	69 - 120
Xylenes, Total	0.100	0.107		mg/Kg		107	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 122
Dibromofluoromethane	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	119		70 - 134
Toluene-d8 (Surr)	116		75 - 122

**Lab Sample ID: LCSD 500-304054/6**  
**Matrix: Solid**  
**Analysis Batch: 304054**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0532		mg/Kg		106	50 - 133	4	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 120	9	30
Bromodichloromethane	0.0500	0.0434		mg/Kg		87	69 - 120	8	30
Bromoform	0.0500	0.0382		mg/Kg		76	51 - 127	5	30
Bromomethane	0.0500	0.0355		mg/Kg		71	69 - 120	4	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-304054/6**  
**Matrix: Solid**  
**Analysis Batch: 304054**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0459		mg/Kg		92	50 - 148	10	30
Carbon disulfide	0.0500	0.0420		mg/Kg		84	58 - 120	9	30
Carbon tetrachloride	0.0500	0.0435		mg/Kg		87	51 - 124	7	30
Chlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 120	2	30
Chloroethane	0.0500	0.0490		mg/Kg		98	49 - 125	21	30
Chloroform	0.0500	0.0455		mg/Kg		91	70 - 120	9	30
Chloromethane	0.0500	0.0395		mg/Kg		79	63 - 126	8	30
cis-1,2-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	11	30
Dibromochloromethane	0.0500	0.0455		mg/Kg		91	69 - 126	2	30
1,1-Dichloroethane	0.0500	0.0534		mg/Kg		107	70 - 120	11	30
1,2-Dichloroethane	0.0500	0.0543		mg/Kg		109	70 - 128	2	30
1,1,1-Dichloroethene	0.0500	0.0437		mg/Kg		87	67 - 120	11	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 120	8	30
Ethylbenzene	0.0500	0.0492		mg/Kg		98	70 - 120	2	30
2-Hexanone	0.0500	0.0514		mg/Kg		103	50 - 150	0	30
Methylene Chloride	0.0500	0.0461		mg/Kg		92	70 - 120	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0478		mg/Kg		96	50 - 150	0	30
Methyl tert-butyl ether	0.0500	0.0468		mg/Kg		94	70 - 120	7	30
Styrene	0.0500	0.0481		mg/Kg		96	70 - 120	2	30
1,1,1,2-Tetrachloroethane	0.0500	0.0525		mg/Kg		105	70 - 133	9	30
Tetrachloroethene	0.0500	0.0448		mg/Kg		90	70 - 120	0	30
Toluene	0.0500	0.0506		mg/Kg		101	70 - 120	0	30
trans-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 120	7	30
1,1,1-Trichloroethane	0.0500	0.0456		mg/Kg		91	70 - 120	12	30
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 120	3	30
Trichloroethene	0.0500	0.0442		mg/Kg		88	70 - 120	7	30
Vinyl acetate	0.0500	0.0486		mg/Kg		97	60 - 150	1	30
Vinyl chloride	0.0500	0.0475		mg/Kg		95	69 - 120	7	30
Xylenes, Total	0.100	0.104		mg/Kg		104	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	112		70 - 122
Dibromofluoromethane	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	113		70 - 134
Toluene-d8 (Surr)	121		75 - 122

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-303853/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303944**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303853**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/11/15 07:33	09/11/15 21:05	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303853/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303944**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303853**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/11/15 07:33	09/11/15 21:05	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-303853/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303944**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303853**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/11/15 07:33	09/11/15 21:05	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/11/15 07:33	09/11/15 21:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	09/11/15 07:33	09/11/15 21:05	1
2-Fluorophenol	91		25 - 110	09/11/15 07:33	09/11/15 21:05	1
Nitrobenzene-d5	82		25 - 115	09/11/15 07:33	09/11/15 21:05	1
Phenol-d5	82		31 - 110	09/11/15 07:33	09/11/15 21:05	1
Terphenyl-d14	79		36 - 134	09/11/15 07:33	09/11/15 21:05	1
2,4,6-Tribromophenol	70		35 - 137	09/11/15 07:33	09/11/15 21:05	1

**Lab Sample ID: LCS 500-303853/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303944**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303853**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.01		mg/Kg		75	46 - 110
Acenaphthylene	1.33	1.07		mg/Kg		80	49 - 110
Anthracene	1.33	0.926		mg/Kg		69	48 - 118
Benzo[a]anthracene	1.33	1.06		mg/Kg		79	49 - 121
Benzo[a]pyrene	1.33	1.07		mg/Kg		80	53 - 122
Benzo[b]fluoranthene	1.33	1.04		mg/Kg		78	54 - 122
Benzo[g,h,i]perylene	1.33	1.07		mg/Kg		80	52 - 125
Benzo[k]fluoranthene	1.33	0.988		mg/Kg		74	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.13		mg/Kg		85	42 - 110
Bis(2-chloroethyl)ether	1.33	1.05		mg/Kg		79	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.07		mg/Kg		80	47 - 133
4-Bromophenyl phenyl ether	1.33	1.05		mg/Kg		79	55 - 113
Butyl benzyl phthalate	1.33	0.966		mg/Kg		72	49 - 121
Carbazole	1.33	1.11		mg/Kg		84	26 - 188
4-Chloroaniline	1.33	1.46		mg/Kg		109	16 - 118
4-Chloro-3-methylphenol	1.33	1.15		mg/Kg		86	52 - 111
2-Chloronaphthalene	1.33	1.07		mg/Kg		80	52 - 114
2-Chlorophenol	1.33	1.09		mg/Kg		82	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.13		mg/Kg		85	53 - 117
Chrysene	1.33	1.07		mg/Kg		80	45 - 118
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	48 - 134
Dibenzofuran	1.33	1.04		mg/Kg		78	51 - 119
1,2-Dichlorobenzene	1.33	1.08		mg/Kg		81	48 - 110

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303853/2-A**

**Matrix: Solid**

**Analysis Batch: 303944**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303853**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	1.33	1.04		mg/Kg		78	44 - 110
1,4-Dichlorobenzene	1.33	0.999		mg/Kg		75	45 - 110
3,3'-Dichlorobenzidine	1.33	0.884		mg/Kg		66	26 - 128
2,4-Dichlorophenol	1.33	1.08		mg/Kg		81	53 - 113
Diethyl phthalate	1.33	1.09		mg/Kg		82	50 - 128
2,4-Dimethylphenol	1.33	1.15		mg/Kg		86	49 - 110
Dimethyl phthalate	1.33	1.06		mg/Kg		79	56 - 113
Di-n-butyl phthalate	1.33	1.00		mg/Kg		75	50 - 128
4,6-Dinitro-2-methylphenol	2.67	0.572	J	mg/Kg		21	10 - 110
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		12	10 - 110
2,4-Dinitrotoluene	1.33	1.09		mg/Kg		82	53 - 122
2,6-Dinitrotoluene	1.33	1.13		mg/Kg		85	54 - 117
Di-n-octyl phthalate	1.33	0.917		mg/Kg		69	46 - 138
Fluoranthene	1.33	0.921		mg/Kg		69	48 - 128
Fluorene	1.33	0.994		mg/Kg		75	47 - 121
Hexachlorobenzene	1.33	0.967		mg/Kg		73	54 - 114
Hexachlorobutadiene	1.33	1.05		mg/Kg		79	47 - 114
Hexachlorocyclopentadiene	1.33	1.02		mg/Kg		76	10 - 110
Hexachloroethane	1.33	1.02		mg/Kg		77	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.25		mg/Kg		94	49 - 132
Isophorone	1.33	1.03		mg/Kg		78	35 - 110
2-Methylnaphthalene	1.33	1.04		mg/Kg		78	48 - 110
2-Methylphenol	1.33	1.07		mg/Kg		80	44 - 110
3 & 4 Methylphenol	1.33	1.11		mg/Kg		83	37 - 122
Naphthalene	1.33	1.05		mg/Kg		79	48 - 110
2-Nitroaniline	1.33	1.08		mg/Kg		81	42 - 122
3-Nitroaniline	1.33	1.11		mg/Kg		83	36 - 131
4-Nitroaniline	1.33	1.31		mg/Kg		98	28 - 157
Nitrobenzene	1.33	1.09		mg/Kg		82	35 - 113
2-Nitrophenol	1.33	1.15		mg/Kg		86	48 - 113
4-Nitrophenol	2.67	2.19		mg/Kg		82	10 - 157
N-Nitrosodi-n-propylamine	1.33	0.953		mg/Kg		71	24 - 123
N-Nitrosodiphenylamine	2.67	1.86		mg/Kg		70	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	1.03		mg/Kg		78	30 - 115
Pentachlorophenol	2.67	1.66		mg/Kg		62	10 - 124
Phenanthrene	1.33	0.975		mg/Kg		73	48 - 121
Phenol	1.33	1.08		mg/Kg		81	41 - 110
Pyrene	1.33	0.936		mg/Kg		70	46 - 114
1,2,4-Trichlorobenzene	1.33	1.08		mg/Kg		81	49 - 110
2,4,5-Trichlorophenol	1.33	1.14		mg/Kg		85	41 - 120
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	44 - 118

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	78		25 - 119
2-Fluorophenol	84		25 - 110
Nitrobenzene-d5	82		25 - 115
Phenol-d5	83		31 - 110
Terphenyl-d14	76		36 - 134

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-303853/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303944**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303853**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	88		35 - 137

**Lab Sample ID: 500-100875-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304318**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.040		1.62	1.42		mg/Kg	☼	87	46 - 110
Acenaphthylene	<0.040		1.62	1.54		mg/Kg	☼	95	49 - 110
Anthracene	<0.040		1.62	1.51		mg/Kg	☼	93	48 - 118
Benzo[a]anthracene	0.042		1.62	1.69		mg/Kg	☼	101	49 - 121
Benzo[a]pyrene	0.047		1.62	1.71		mg/Kg	☼	102	53 - 122
Benzo[b]fluoranthene	0.081	F1	1.62	2.35	F1	mg/Kg	☼	139	54 - 122
Benzo[g,h,i]perylene	0.024	J	1.62	1.44		mg/Kg	☼	87	52 - 125
Benzo[k]fluoranthene	0.033	J F1	1.62	2.33	F1	mg/Kg	☼	141	44 - 137
Bis(2-chloroethoxy)methane	<0.20		1.62	1.62		mg/Kg	☼	100	42 - 110
Bis(2-chloroethyl)ether	<0.20		1.62	1.70		mg/Kg	☼	105	32 - 110
Bis(2-ethylhexyl) phthalate	0.16	J F1	1.62	3.05	E F1	mg/Kg	☼	178	47 - 133
4-Bromophenyl phenyl ether	<0.20		1.62	1.74		mg/Kg	☼	107	55 - 113
Butyl benzyl phthalate	<0.20	F1	1.62	2.99	E F1	mg/Kg	☼	184	49 - 121
Carbazole	<0.20		1.62	1.65		mg/Kg	☼	101	26 - 188
4-Chloroaniline	<0.81		1.62	0.929		mg/Kg	☼	57	16 - 118
4-Chloro-3-methylphenol	<0.40		1.62	1.60		mg/Kg	☼	99	52 - 111
2-Chloronaphthalene	<0.20		1.62	1.60		mg/Kg	☼	98	52 - 114
2-Chlorophenol	<0.20		1.62	1.53		mg/Kg	☼	94	47 - 114
4-Chlorophenyl phenyl ether	<0.20		1.62	1.56		mg/Kg	☼	96	53 - 117
Chrysene	0.062		1.62	1.67		mg/Kg	☼	99	45 - 118
Dibenz(a,h)anthracene	<0.040		1.62	1.43		mg/Kg	☼	88	48 - 134
Dibenzofuran	<0.20		1.62	1.56		mg/Kg	☼	96	51 - 119
1,2-Dichlorobenzene	<0.20		1.62	1.50		mg/Kg	☼	92	48 - 110
1,3-Dichlorobenzene	<0.20		1.62	1.49		mg/Kg	☼	92	44 - 110
1,4-Dichlorobenzene	<0.20		1.62	1.53		mg/Kg	☼	95	45 - 110
3,3'-Dichlorobenzidine	<0.20		1.62	0.617		mg/Kg	☼	38	26 - 128
2,4-Dichlorophenol	<0.40		1.62	1.60		mg/Kg	☼	99	53 - 113
Diethyl phthalate	<0.20		1.62	1.47		mg/Kg	☼	91	50 - 128
2,4-Dimethylphenol	<0.40		1.62	1.55		mg/Kg	☼	95	49 - 110
Dimethyl phthalate	<0.20		1.62	1.44		mg/Kg	☼	89	56 - 113
Di-n-butyl phthalate	<0.20		1.62	1.58		mg/Kg	☼	97	50 - 128
4,6-Dinitro-2-methylphenol	<0.81	F1	3.25	<0.82	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrophenol	<0.81	F1	3.25	<0.82	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrotoluene	<0.20		1.62	1.24		mg/Kg	☼	77	53 - 122
2,6-Dinitrotoluene	<0.20		1.62	1.40		mg/Kg	☼	86	54 - 117
Di-n-octyl phthalate	<0.20	F1	1.62	5.35	E F1	mg/Kg	☼	330	46 - 138
Fluoranthene	0.084		1.62	1.26		mg/Kg	☼	72	48 - 128
Fluorene	<0.040		1.62	1.50		mg/Kg	☼	92	47 - 121
Hexachlorobenzene	<0.081		1.62	1.63		mg/Kg	☼	101	54 - 114
Hexachlorobutadiene	<0.20		1.62	1.47		mg/Kg	☼	91	47 - 114
Hexachlorocyclopentadiene	<0.81	F1	1.62	<0.82	F1	mg/Kg	☼	0	10 - 110

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100875-1 MS**

**Matrix: Solid**

**Analysis Batch: 304318**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303853**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexachloroethane	<0.20		1.62	1.02		mg/Kg	☼	63	44 - 110
Indeno[1,2,3-cd]pyrene	0.027	J	1.62	1.76		mg/Kg	☼	107	49 - 132
Isophorone	<0.20		1.62	1.57		mg/Kg	☼	97	35 - 110
2-Methylnaphthalene	<0.040		1.62	1.54		mg/Kg	☼	95	48 - 110
2-Methylphenol	<0.20		1.62	1.68		mg/Kg	☼	103	44 - 110
3 & 4 Methylphenol	<0.20		1.62	1.58		mg/Kg	☼	97	37 - 122
Naphthalene	<0.040		1.62	1.53		mg/Kg	☼	94	48 - 110
2-Nitroaniline	<0.20		1.62	1.59		mg/Kg	☼	98	42 - 122
3-Nitroaniline	<0.40		1.62	1.38		mg/Kg	☼	85	36 - 131
4-Nitroaniline	<0.40		1.62	1.52		mg/Kg	☼	94	28 - 157
Nitrobenzene	<0.040		1.62	1.49		mg/Kg	☼	92	35 - 113
2-Nitrophenol	<0.40		1.62	1.48		mg/Kg	☼	91	48 - 113
4-Nitrophenol	<0.81		3.25	2.36		mg/Kg	☼	73	10 - 157
N-Nitrosodi-n-propylamine	<0.20		1.62	1.61		mg/Kg	☼	99	24 - 123
N-Nitrosodiphenylamine	<0.20		3.25	3.31		mg/Kg	☼	102	52 - 111
2,2'-oxybis[1-chloropropane]	<0.20		1.62	1.72		mg/Kg	☼	106	30 - 115
Pentachlorophenol	<0.81	F2	3.25	0.970		mg/Kg	☼	30	10 - 124
Phenanthrene	0.048		1.62	1.62		mg/Kg	☼	97	48 - 121
Phenol	<0.20		1.62	1.69		mg/Kg	☼	104	41 - 110
Pyrene	0.078	F1	1.62	2.90	E F1	mg/Kg	☼	174	46 - 114
1,2,4-Trichlorobenzene	<0.20		1.62	1.56		mg/Kg	☼	96	49 - 110
2,4,5-Trichlorophenol	<0.40		1.62	1.49		mg/Kg	☼	92	41 - 120
2,4,6-Trichlorophenol	<0.40		1.62	1.70		mg/Kg	☼	105	44 - 118

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	89		25 - 119
2-Fluorophenol	97		25 - 110
Nitrobenzene-d5	80		25 - 115
Phenol-d5	96		31 - 110
Terphenyl-d14	192	X	36 - 134
2,4,6-Tribromophenol	88		35 - 137

**Lab Sample ID: 500-100875-1 MSD**

**Matrix: Solid**

**Analysis Batch: 304318**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303853**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	<0.040		1.57	1.41		mg/Kg	☼	90	46 - 110	1	30
Acenaphthylene	<0.040		1.57	1.50		mg/Kg	☼	96	49 - 110	2	30
Anthracene	<0.040		1.57	1.47		mg/Kg	☼	94	48 - 118	2	30
Benzo[a]anthracene	0.042		1.57	1.62		mg/Kg	☼	101	49 - 121	4	30
Benzo[a]pyrene	0.047		1.57	1.65		mg/Kg	☼	102	53 - 122	3	30
Benzo[b]fluoranthene	0.081	F1	1.57	1.96		mg/Kg	☼	120	54 - 122	18	30
Benzo[g,h,i]perylene	0.024	J	1.57	1.24		mg/Kg	☼	78	52 - 125	15	30
Benzo[k]fluoranthene	0.033	J F1	1.57	2.02		mg/Kg	☼	127	44 - 137	14	30
Bis(2-chloroethoxy)methane	<0.20		1.57	1.53		mg/Kg	☼	97	42 - 110	6	30
Bis(2-chloroethyl)ether	<0.20		1.57	1.62		mg/Kg	☼	103	32 - 110	5	30
Bis(2-ethylhexyl) phthalate	0.16	J F1	1.57	3.00	E F1	mg/Kg	☼	181	47 - 133	2	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100875-1 MSD**

**Matrix: Solid**

**Analysis Batch: 304318**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303853**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Bromophenyl phenyl ether	<0.20		1.57	1.69		mg/Kg	☼	108	55 - 113	3	30
Butyl benzyl phthalate	<0.20	F1	1.57	2.94	E F1	mg/Kg	☼	188	49 - 121	2	30
Carbazole	<0.20		1.57	1.55		mg/Kg	☼	99	26 - 188	6	30
4-Chloroaniline	<0.81		1.57	0.961		mg/Kg	☼	61	16 - 118	3	30
4-Chloro-3-methylphenol	<0.40		1.57	1.54		mg/Kg	☼	98	52 - 111	4	30
2-Chloronaphthalene	<0.20		1.57	1.50		mg/Kg	☼	96	52 - 114	6	30
2-Chlorophenol	<0.20		1.57	1.47		mg/Kg	☼	94	47 - 114	4	30
4-Chlorophenyl phenyl ether	<0.20		1.57	1.54		mg/Kg	☼	98	53 - 117	1	30
Chrysene	0.062		1.57	1.58		mg/Kg	☼	97	45 - 118	5	30
Dibenz(a,h)anthracene	<0.040		1.57	1.22		mg/Kg	☼	78	48 - 134	16	30
Dibenzofuran	<0.20		1.57	1.48		mg/Kg	☼	95	51 - 119	5	30
1,2-Dichlorobenzene	<0.20		1.57	1.38		mg/Kg	☼	88	48 - 110	8	30
1,3-Dichlorobenzene	<0.20		1.57	1.42		mg/Kg	☼	90	44 - 110	5	30
1,4-Dichlorobenzene	<0.20		1.57	1.50		mg/Kg	☼	96	45 - 110	2	30
3,3'-Dichlorobenzidine	<0.20		1.57	0.762		mg/Kg	☼	49	26 - 128	21	30
2,4-Dichlorophenol	<0.40		1.57	1.59		mg/Kg	☼	102	53 - 113	0	30
Diethyl phthalate	<0.20		1.57	1.43		mg/Kg	☼	91	50 - 128	3	30
2,4-Dimethylphenol	<0.40		1.57	1.59		mg/Kg	☼	101	49 - 110	3	30
Dimethyl phthalate	<0.20		1.57	1.40		mg/Kg	☼	89	56 - 113	3	30
Di-n-butyl phthalate	<0.20		1.57	1.52		mg/Kg	☼	97	50 - 128	4	30
4,6-Dinitro-2-methylphenol	<0.81	F1	3.14	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrophenol	<0.81	F1	3.14	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrotoluene	<0.20		1.57	1.29		mg/Kg	☼	82	53 - 122	3	30
2,6-Dinitrotoluene	<0.20		1.57	1.32		mg/Kg	☼	84	54 - 117	6	30
Di-n-octyl phthalate	<0.20	F1	1.57	4.65	E F1	mg/Kg	☼	297	46 - 138	14	30
Fluoranthene	0.084		1.57	1.21		mg/Kg	☼	72	48 - 128	4	30
Fluorene	<0.040		1.57	1.48		mg/Kg	☼	94	47 - 121	1	30
Hexachlorobenzene	<0.081		1.57	1.61		mg/Kg	☼	103	54 - 114	1	30
Hexachlorobutadiene	<0.20		1.57	1.47		mg/Kg	☼	94	47 - 114	0	30
Hexachlorocyclopentadiene	<0.81	F1	1.57	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
Hexachloroethane	<0.20		1.57	0.858		mg/Kg	☼	55	44 - 110	18	30
Indeno[1,2,3-cd]pyrene	0.027	J	1.57	1.47		mg/Kg	☼	92	49 - 132	18	30
Isophorone	<0.20		1.57	1.55		mg/Kg	☼	99	35 - 110	1	30
2-Methylnaphthalene	<0.040		1.57	1.51		mg/Kg	☼	96	48 - 110	2	30
2-Methylphenol	<0.20		1.57	1.56		mg/Kg	☼	99	44 - 110	8	30
3 & 4 Methylphenol	<0.20		1.57	1.45		mg/Kg	☼	92	37 - 122	9	30
Naphthalene	<0.040		1.57	1.44		mg/Kg	☼	92	48 - 110	6	30
2-Nitroaniline	<0.20		1.57	1.60		mg/Kg	☼	102	42 - 122	1	30
3-Nitroaniline	<0.40		1.57	1.48		mg/Kg	☼	95	36 - 131	7	30
4-Nitroaniline	<0.40		1.57	1.55		mg/Kg	☼	99	28 - 157	2	30
Nitrobenzene	<0.040		1.57	1.40		mg/Kg	☼	90	35 - 113	6	30
2-Nitrophenol	<0.40		1.57	1.44		mg/Kg	☼	92	48 - 113	3	30
4-Nitrophenol	<0.81		3.14	2.29		mg/Kg	☼	73	10 - 157	3	30
N-Nitrosodi-n-propylamine	<0.20		1.57	1.46		mg/Kg	☼	93	24 - 123	10	30
N-Nitrosodiphenylamine	<0.20		3.14	3.22		mg/Kg	☼	103	52 - 111	3	30
2,2'-oxybis[1-chloropropane]	<0.20		1.57	1.59		mg/Kg	☼	101	30 - 115	8	30
Pentachlorophenol	<0.81	F2	3.14	0.644	J F2	mg/Kg	☼	21	10 - 124	40	30
Phenanthrene	0.048		1.57	1.57		mg/Kg	☼	97	48 - 121	3	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-100875-1 MSD**

**Matrix: Solid**

**Analysis Batch: 304318**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phenol	<0.20		1.57	1.58		mg/Kg	☼	101	41 - 110	7	30
Pyrene	0.078	F1	1.57	2.86	E F1	mg/Kg	☼	178	46 - 114	1	30
1,2,4-Trichlorobenzene	<0.20		1.57	1.54		mg/Kg	☼	98	49 - 110	2	30
2,4,5-Trichlorophenol	<0.40		1.57	1.48		mg/Kg	☼	94	41 - 120	1	30
2,4,6-Trichlorophenol	<0.40		1.57	1.73		mg/Kg	☼	110	44 - 118	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	89		25 - 119
2-Fluorophenol	94		25 - 110
Nitrobenzene-d5	89		25 - 115
Phenol-d5	94		31 - 110
Terphenyl-d14	194	X	36 - 134
2,4,6-Tribromophenol	89		35 - 137

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 500-303879/1-A**

**Matrix: Solid**

**Analysis Batch: 304084**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303879**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Barium	<1.0		1.0	0.18	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Cadmium	0.0629	J	0.20	0.058	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Chromium	<1.0		1.0	0.17	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Cobalt	<0.50		0.50	0.11	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Copper	<1.0		1.0	0.22	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Iron	<20		20	7.7	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Lead	<0.50		0.50	0.25	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Magnesium	<10		10	4.1	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Calcium	10.9	J	20	6.4	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Manganese	<1.0		1.0	0.20	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Nickel	<1.0		1.0	0.27	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Silver	<0.50		0.50	0.12	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Potassium	<50		50	8.2	mg/Kg		09/11/15 08:45	09/12/15 01:51	1
Sodium	18.9	J	100	13	mg/Kg		09/11/15 08:45	09/12/15 01:51	1

**Lab Sample ID: LCS 500-303879/2-A**

**Matrix: Solid**

**Analysis Batch: 304084**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303879**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-303879/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304084**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303879**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	9.51		mg/Kg		95	80 - 120
Barium	200	182		mg/Kg		91	80 - 120
Beryllium	5.00	4.50		mg/Kg		90	80 - 120
Cadmium	5.00	4.86		mg/Kg		97	80 - 120
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Iron	100	99.6		mg/Kg		100	80 - 120
Lead	10.0	9.92		mg/Kg		99	80 - 120
Magnesium	1000	895		mg/Kg		90	80 - 120
Calcium	1000	945		mg/Kg		94	80 - 120
Manganese	50.0	44.8		mg/Kg		90	80 - 120
Nickel	50.0	49.0		mg/Kg		98	80 - 120
Selenium	10.0	8.63		mg/Kg		86	80 - 120
Silver	5.00	4.58		mg/Kg		92	80 - 120
Thallium	5.00	4.33		mg/Kg		87	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Potassium	1000	944		mg/Kg		94	80 - 120
Sodium	1000	958		mg/Kg		96	80 - 120

**Lab Sample ID: 500-100875-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304084**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303879**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.48	J F1	30.1	9.13	F1	mg/Kg	☼	29	75 - 125
Arsenic	14	F1	6.02	15.4	F1	mg/Kg	☼	30	75 - 125
Barium	63		120	168		mg/Kg	☼	87	75 - 125
Beryllium	0.54		3.01	2.98		mg/Kg	☼	81	75 - 125
Cadmium	0.77	B F1	3.01	3.29		mg/Kg	☼	84	75 - 125
Chromium	13		12.0	23.4		mg/Kg	☼	85	75 - 125
Cobalt	8.3		30.1	40.3		mg/Kg	☼	106	75 - 125
Copper	22	F1	15.0	36.4		mg/Kg	☼	93	75 - 125
Iron	22000	F2	60.2	18700	4	mg/Kg	☼	-5334	75 - 125
Lead	180	F2	6.02	196	4	mg/Kg	☼	324	75 - 125
Magnesium	24000		602	23000	4	mg/Kg	☼	-139	75 - 125
Manganese	270	F2	30.1	328	4	mg/Kg	☼	204	75 - 125
Nickel	20		30.1	51.7		mg/Kg	☼	104	75 - 125
Selenium	0.62	F1	6.02	4.80	F1	mg/Kg	☼	70	75 - 125
Silver	<0.29		3.01	2.24		mg/Kg	☼	75	75 - 125
Thallium	<0.58		3.01	2.55		mg/Kg	☼	85	75 - 125
Vanadium	22		30.1	49.0		mg/Kg	☼	89	75 - 125
Potassium	1300	F1	602	2410	F1	mg/Kg	☼	181	75 - 125
Sodium	3000	B	602	3710	4	mg/Kg	☼	123	75 - 125

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100875-1 MS**

**Matrix: Solid**  
**Analysis Batch: 304290**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303879**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Calcium	44000	B F2	602	42300	4	mg/Kg	☼	-294	75 - 125
Zinc	90	F1 F2	30.1	127		mg/Kg	☼	124	75 - 125

**Lab Sample ID: 500-100875-1 MSD**

**Matrix: Solid**  
**Analysis Batch: 304084**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303879**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	0.48	J F1	30.1	8.23	F1	mg/Kg	☼	26	75 - 125	10	20
Arsenic	14	F1	6.01	17.0	F1	mg/Kg	☼	57	75 - 125	10	20
Barium	63		120	166		mg/Kg	☼	85	75 - 125	1	20
Beryllium	0.54		3.01	2.93		mg/Kg	☼	79	75 - 125	2	20
Cadmium	0.77	B F1	3.01	2.93	F1	mg/Kg	☼	72	75 - 125	12	20
Chromium	13		12.0	23.7		mg/Kg	☼	88	75 - 125	1	20
Cobalt	8.3		30.1	40.5		mg/Kg	☼	107	75 - 125	0	20
Copper	22	F1	15.0	32.3	F1	mg/Kg	☼	66	75 - 125	12	20
Iron	22000	F2	60.1	23400	4 F2	mg/Kg	☼	2419	75 - 125	22	20
Lead	180	F2	6.01	42.5	4 F2	mg/Kg	☼	-2226	75 - 125	129	20
Magnesium	24000		601	28300	4	mg/Kg	☼	733	75 - 125	20	20
Manganese	270	F2	30.1	545	4 F2	mg/Kg	☼	926	75 - 125	50	20
Nickel	20		30.1	53.9		mg/Kg	☼	111	75 - 125	4	20
Selenium	0.62	F1	6.01	5.11		mg/Kg	☼	75	75 - 125	6	20
Silver	<0.29		3.01	2.25		mg/Kg	☼	75	75 - 125	0	20
Thallium	<0.58		3.01	2.28		mg/Kg	☼	76	75 - 125	11	20
Vanadium	22		30.1	52.6		mg/Kg	☼	101	75 - 125	7	20
Potassium	1300	F1	601	2250	F1	mg/Kg	☼	155	75 - 125	7	20
Sodium	3000	B	601	3240	4	mg/Kg	☼	45	75 - 125	14	20

**Lab Sample ID: 500-100875-1 MSD**

**Matrix: Solid**  
**Analysis Batch: 304290**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303879**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Calcium	44000	B F2	601	53500	4 F2	mg/Kg	☼	1579	75 - 125	23	20
Zinc	90	F1 F2	30.1	93.6	F1 F2	mg/Kg	☼	13	75 - 125	30	20

**Lab Sample ID: 500-100875-1 DU**

**Matrix: Solid**  
**Analysis Batch: 304084**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 303879**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.48	J F1	0.463	J	mg/Kg	☼	4	20
Arsenic	14	F1	13.9		mg/Kg	☼	2	20
Barium	63		69.5		mg/Kg	☼	9	20
Beryllium	0.54		0.653		mg/Kg	☼	18	20
Cadmium	0.77	B F1	0.402	F3	mg/Kg	☼	63	20
Chromium	13		14.8		mg/Kg	☼	12	20
Cobalt	8.3		10.8	F3	mg/Kg	☼	26	20
Copper	22	F1	18.1	F3	mg/Kg	☼	22	20

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100875-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304084**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303879**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Iron	22000	F2	24900		mg/Kg	☼	13	20
Lead	180	F2	28.0	F3	mg/Kg	☼	145	20
Magnesium	24000		26500		mg/Kg	☼	11	20
Manganese	270	F2	499	F3	mg/Kg	☼	61	20
Nickel	20		24.9		mg/Kg	☼	20	20
Selenium	0.62	F1	0.465	J F5	mg/Kg	☼	28	20
Silver	<0.29		<0.31		mg/Kg	☼	NC	20
Thallium	<0.58		<0.61		mg/Kg	☼	NC	20
Vanadium	22		28.7	F3	mg/Kg	☼	26	20
Potassium	1300	F1	1140		mg/Kg	☼	14	20
Sodium	3000	B	2850		mg/Kg	☼	4	20

**Lab Sample ID: 500-100875-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304290**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303879**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	44000	B F2	51400		mg/Kg	☼	15	20
Zinc	90	F1 F2	63.4	F3	mg/Kg	☼	34	20

**Lab Sample ID: LCS 500-304421/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304421**  
**%Rec. Limits**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.525		mg/L	105	80 - 120	
Beryllium	0.0500	0.0529		mg/L	106	80 - 120	
Cadmium	0.0500	0.0521		mg/L	104	80 - 120	
Chromium	0.200	0.211		mg/L	105	80 - 120	
Cobalt	0.500	0.530		mg/L	106	80 - 120	
Copper	0.250	0.267		mg/L	107	80 - 120	
Iron	1.00	1.09		mg/L	109	80 - 120	
Lead	0.100	0.106		mg/L	106	80 - 120	
Magnesium	10.0	10.5		mg/L	105	80 - 120	
Calcium	10.0	10.5		mg/L	105	80 - 120	
Manganese	0.500	0.541		mg/L	108	80 - 120	
Nickel	0.500	0.522		mg/L	104	80 - 120	
Selenium	0.100	0.0976		mg/L	98	80 - 120	
Silver	0.0500	0.0522		mg/L	104	80 - 120	
Vanadium	0.500	0.536		mg/L	107	80 - 120	
Zinc	0.500	0.524		mg/L	105	80 - 120	
Potassium	10.0	9.91		mg/L	99	80 - 120	

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-304531/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304531**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0975		mg/L		98	80 - 120
Barium	0.500	0.492	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0524		mg/L		105	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.500	0.517		mg/L		103	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Magnesium	10.0	10.3		mg/L		103	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.500	0.527		mg/L		105	80 - 120
Nickel	0.500	0.503		mg/L		101	80 - 120
Selenium	0.100	0.0966		mg/L		97	80 - 120
Silver	0.0500	0.0503		mg/L		101	80 - 120
Vanadium	0.500	0.522		mg/L		104	80 - 120
Zinc	0.500	0.523		mg/L		105	80 - 120
Potassium	10.0	9.34		mg/L		93	80 - 120

**Lab Sample ID: LB 500-304396/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304531**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Barium	<0.50		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 21:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 21:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 21:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 21:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 21:58	1
Magnesium	<2.5		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 21:58	1
Calcium	<2.5		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 21:58	1
Manganese	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 21:58	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 21:58	1
Zinc	<0.10		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 21:58	1
Potassium	<2.5		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 21:58	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB2 500-304398/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304531**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Barium	<0.50		0.50	0.050	mg/L		09/16/15 10:30	09/16/15 22:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 10:30	09/16/15 22:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 10:30	09/16/15 22:05	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 10:30	09/16/15 22:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 10:30	09/16/15 22:05	1
Magnesium	<2.5		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 22:05	1
Calcium	<2.5		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 22:05	1
Manganese	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 10:30	09/16/15 22:05	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 10:30	09/16/15 22:05	1
Zinc	<0.10		0.10	0.020	mg/L		09/16/15 10:30	09/16/15 22:05	1
Potassium	<2.5		2.5	0.50	mg/L		09/16/15 10:30	09/16/15 22:05	1

**Lab Sample ID: 500-100875-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304531**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.050		0.100	0.110		mg/L		110	50 - 150
Barium	0.59		0.500	1.01		mg/L		84	50 - 150
Beryllium	<0.0040		0.0500	0.0532		mg/L		106	50 - 150
Cadmium	<0.0050		0.0500	0.0514		mg/L		103	50 - 150
Chromium	<0.025		0.200	0.203		mg/L		102	50 - 150
Cobalt	0.024	J	0.500	0.522		mg/L		100	50 - 150
Copper	<0.025		0.250	0.265		mg/L		106	50 - 150
Iron	0.24		1.00	1.29		mg/L		105	50 - 150
Lead	0.023		0.100	0.124		mg/L		101	50 - 150
Magnesium	93		10.0	103	4	mg/L		104	50 - 150
Calcium	200		10.0	213	4	mg/L		102	50 - 150
Manganese	6.5		0.500	7.07	4	mg/L		124	50 - 150
Nickel	0.020	J	0.500	0.505		mg/L		97	50 - 150
Selenium	<0.050		0.100	0.107		mg/L		107	50 - 150
Silver	<0.025		0.0500	0.0542		mg/L		108	50 - 150
Vanadium	<0.025		0.500	0.532		mg/L		106	50 - 150
Zinc	0.22		0.500	0.630		mg/L		83	50 - 150
Potassium	8.1	F1	10.0	26.0	F1	mg/L		179	50 - 150

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100875-1 DU**

**Matrix: Solid**

**Analysis Batch: 304648**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: TCLP**

**Prep Batch: 304531**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.59		0.575		mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.024 J		0.0226 J		mg/L		5	20
Copper	<0.025		<0.025		mg/L		NC	20
Iron	0.24		0.209		mg/L		13	20
Lead	0.023		0.0215		mg/L		8	20
Magnesium	93		88.2		mg/L		5	20
Calcium	200		195		mg/L		4	20
Manganese	6.5		6.22		mg/L		4	20
Nickel	0.020 J		0.0187 J		mg/L		5	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.22		0.209		mg/L		3	20
Potassium	8.1 F1		7.97		mg/L		2	20

**Lab Sample ID: LB 500-304208/1-C**

**Matrix: Solid**

**Analysis Batch: 304648**

**Client Sample ID: Method Blank**

**Prep Type: SPLP East**

**Prep Batch: 304421**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Barium	<0.50		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 15:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 15:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 15:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 15:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 15:08	1
Magnesium	<2.5		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:08	1
Calcium	<2.5		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:08	1
Manganese	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 15:08	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 15:08	1
Zinc	<0.10		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 15:08	1
Potassium	<2.5		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 15:08	1

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 500-100875-1 MS**

**Matrix: Solid**

**Analysis Batch: 304648**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: SPLP East**

**Prep Batch: 304421**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	0.073		0.100	0.173		mg/L		100	50 - 150
Barium	0.65		0.500	1.17		mg/L		104	50 - 150
Beryllium	0.0056		0.0500	0.0534		mg/L		96	50 - 150
Cadmium	<0.0050		0.0500	0.0451		mg/L		90	50 - 150
Chromium	0.14		0.200	0.353		mg/L		106	50 - 150
Cobalt	0.053		0.500	0.520		mg/L		94	50 - 150
Copper	0.16		0.250	0.403		mg/L		99	50 - 150
Iron	160		1.00	185	4	mg/L		2239	50 - 150
Lead	0.52		0.100	0.669	4	mg/L		153	50 - 150
Magnesium	24		10.0	36.1		mg/L		121	50 - 150
Calcium	27		10.0	33.2		mg/L		63	50 - 150
Manganese	1.9		0.500	2.53		mg/L		132	50 - 150
Nickel	0.14		0.500	0.621		mg/L		95	50 - 150
Selenium	<0.050		0.100	0.0940		mg/L		94	50 - 150
Silver	<0.025		0.0500	0.0473		mg/L		95	50 - 150
Vanadium	0.22		0.500	0.737		mg/L		103	50 - 150
Zinc	0.87		0.500	1.18		mg/L		61	50 - 150
Potassium	19		10.0	33.6		mg/L		145	50 - 150

**Lab Sample ID: 500-100875-1 DU**

**Matrix: Solid**

**Analysis Batch: 304648**

**Client Sample ID: 2618-7-B156 (0-2)**

**Prep Type: SPLP East**

**Prep Batch: 304421**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.073		0.0686		mg/L		6	20
Barium	0.65		0.638		mg/L		1	20
Beryllium	0.0056		0.00567		mg/L		0.9	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	0.14		0.144		mg/L		2	20
Cobalt	0.053		0.0517		mg/L		2	20
Copper	0.16		0.153		mg/L		1	20
Iron	160		162		mg/L		0.4	20
Lead	0.52		0.503		mg/L		3	20
Magnesium	24		24.2		mg/L		0.8	20
Calcium	27		25.9		mg/L		4	20
Manganese	1.9		1.82		mg/L		2	20
Nickel	0.14		0.144		mg/L		0.6	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.22		0.229		mg/L		4	20
Zinc	0.87		0.850		mg/L		3	20
Potassium	19		20.3		mg/L		6	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: LCS 500-304421/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304421**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.519		mg/L		104	80 - 120
Thallium	0.100	0.114		mg/L		114	80 - 120

**Lab Sample ID: LCS 500-304531/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304699**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304531**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.484		mg/L		97	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

**Lab Sample ID: LB 500-304396/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304699**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304531**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 10:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 10:59	1

**Lab Sample ID: LB2 500-304398/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304699**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304531**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 10:30	09/17/15 11:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 10:30	09/17/15 11:00	1

**Lab Sample ID: 500-100875-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304699**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304531**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: LB 500-304208/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304421**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 09:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 09:54	1

**Lab Sample ID: 500-100875-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304421**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060	F1	0.500	0.113	F1	mg/L		23	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: 500-100875-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304421**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.0025		0.100	0.0942		mg/L		92	50 - 150

**Lab Sample ID: 500-100875-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304421**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060	F1	<0.0060		mg/L		NC	20
Thallium	0.0025		0.00250		mg/L		0.2	20

## Method: 7470A - TCLP Mercury

**Lab Sample ID: MB 500-304581/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304727**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304581**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:50	1

**Lab Sample ID: LCS 500-304581/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304727**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304581**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00211		mg/L		105	80 - 120

**Lab Sample ID: LB 500-304396/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304727**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304581**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:54	1

**Lab Sample ID: LB2 500-304398/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304727**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304581**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 09:56	1

**Lab Sample ID: 500-100875-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 304727**

**Client Sample ID: 2618-7-B155 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304581**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00109		mg/L		109	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 7470A - TCLP Mercury (Continued)

**Lab Sample ID: 500-100875-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 304727**

**Client Sample ID: 2618-7-B155 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304581**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-304417/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304417**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:31	1

**Lab Sample ID: LCS 500-304417/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304417**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

**Lab Sample ID: LB 500-304208/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304417**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:35	1

**Lab Sample ID: 500-100875-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: 2618-7-B155 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304417**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000942		mg/L		94	50 - 150

**Lab Sample ID: 500-100875-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 304547**

**Client Sample ID: 2618-7-B155 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304417**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 500-303936/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304219**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303936**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg		09/11/15 17:00	09/14/15 14:50	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 7471B - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 500-303936/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304219**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303936**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.191		mg/Kg		114	80 - 120

**Lab Sample ID: 500-100875-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304219**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.054		0.0879	0.144		mg/Kg	☼	103	75 - 125

**Lab Sample ID: 500-100875-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 304219**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.054		0.0890	0.149		mg/Kg	☼	106	75 - 125	3	20

**Lab Sample ID: 500-100875-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304219**

**Client Sample ID: 2618-7-B156 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303936**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.054		0.0575		mg/Kg	☼	6	20

## Method: 9014 - Cyanide

**Lab Sample ID: MB 500-304221/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304333**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/14/15 20:55	09/14/15 22:55	1

**Lab Sample ID: LCS 500-304221/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304333**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.16		mg/Kg		103	80 - 120

**Lab Sample ID: MB 500-304344/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304392**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304344**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/15/15 15:15	09/15/15 17:25	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

## Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-304344/2-A  
 Matrix: Solid  
 Analysis Batch: 304392

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 304344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.45		mg/Kg		109	80 - 120

## Method: 9045D - pH

Lab Sample ID: 500-100875-13 DU  
 Matrix: Solid  
 Analysis Batch: 304107

Client Sample ID: 2618-7-B05 (0-2)  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.42		8.410		SU		0.1	

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 15:22	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 22:34	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 09:57	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:02	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:37	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 21:14		
					(End)	09/10/15 21:18		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B156 (0-2)**

**Lab Sample ID: 500-100875-1**

**Date Collected: 09/04/15 11:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	303849	09/11/15 19:54	BDW	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/15/15 15:06	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 04:31	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 01:59	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 14:58	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 22:57		
					(End)	09/14/15 22:57		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 (0-2)**

**Lab Sample ID: 500-100875-2**

**Date Collected: 09/04/15 11:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 15:49	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 23:02	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:07	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:10	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:39	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 21:18		
					(End)	09/10/15 21:22		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B155 (0-2)**

**Lab Sample ID: 500-100875-2**

**Date Collected: 09/04/15 11:35**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	303849	09/11/15 20:19	BDW	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/15/15 15:32	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 05:20	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 02:23	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:06	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 22:57		
					(End)	09/14/15 22:58		

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B155 DUP (0-2)**

**Lab Sample ID: 500-100875-3**

**Date Collected: 09/04/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 15:56	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 23:08	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:09	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:11	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:49	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 21:22		
					(End)	09/10/15 21:27		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B155 DUP (0-2)**

**Lab Sample ID: 500-100875-3**

**Date Collected: 09/04/15 11:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	303849	09/11/15 20:44	BDW	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/15/15 15:58	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 05:27	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 02:27	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:08	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 22:58		
					(End)	09/14/15 22:58		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B154 (0-2)**

**Lab Sample ID: 500-100875-4**

**Date Collected: 09/04/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 16:02	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 23:15	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:11	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:12	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:51	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:12	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 21:27		
					(End)	09/10/15 21:31		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B154 (0-2)**

**Lab Sample ID: 500-100875-4**

**Date Collected: 09/04/15 11:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 11:25	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 19:29	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 05:34	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 02:39	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:10	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 22:58		
					(End)	09/14/15 22:58		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

**Date Collected: 09/04/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 16:18	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 23:22	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:12	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:13	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:53	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:14	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 21:31		
					(End)	09/10/15 21:36		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B153 (0-2)**

**Lab Sample ID: 500-100875-5**

**Date Collected: 09/04/15 12:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 11:50	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/15/15 16:24	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 05:41	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 02:44	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:12	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 22:59		
					(End)	09/14/15 22:59		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 16:41	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 23:29	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:14	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:14	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:55	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 21:36		
					(End)	09/10/15 21:40		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B152 (0-2)**

**Lab Sample ID: 500-100875-6**

**Date Collected: 09/04/15 12:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 12:15	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 16:33	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 05:47	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 02:49	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:14	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 22:59		
					(End)	09/14/15 23:00		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B151 (0-2)**

**Lab Sample ID: 500-100875-7**

**Date Collected: 09/04/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 16:48	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 23:51	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:15	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:15	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:57	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	303885		SMO	TAL CHI
					(Start)	09/10/15 21:40		
					(End)	09/10/15 21:45		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B151 (0-2)**

**Lab Sample ID: 500-100875-7**

**Date Collected: 09/04/15 12:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 78.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 12:40	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304247	09/15/15 01:33	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 05:54	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 02:53	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:20	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:00		
					(End)	09/14/15 23:00		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B150 (0-2)**

**Lab Sample ID: 500-100875-8**

**Date Collected: 09/04/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 16:54	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/16/15 23:58	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:17	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:16	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 11:58	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 16:27		
					(End)	09/11/15 16:33		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B150 (0-2)**

**Lab Sample ID: 500-100875-8**

**Date Collected: 09/04/15 12:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 93.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 13:05	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 16:58	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 06:01	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 02:58	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:22	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:00		
					(End)	09/14/15 23:00		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B149 (0-2)**

**Lab Sample ID: 500-100875-9**

**Date Collected: 09/04/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 17:01	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:05	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:19	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:18	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:00	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 16:33		
					(End)	09/11/15 16:39		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B149 (0-2)**

**Lab Sample ID: 500-100875-9**

**Date Collected: 09/04/15 12:30**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 84.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 13:30	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/15/15 16:51	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 06:08	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:03	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:24	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:00		
					(End)	09/14/15 23:00		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 17:08	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:12	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:20	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:19	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:02	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 16:39		
					(End)	09/11/15 16:45		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B148 (0-2)**

**Lab Sample ID: 500-100875-10**

**Date Collected: 09/04/15 12:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 13:56	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304247	09/15/15 01:56	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 06:15	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:07	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:26	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:00		
					(End)	09/14/15 23:01		

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

**Date Collected: 09/04/15 07:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 17:21	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:18	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:22	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:20	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:04	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:29	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 16:45		
					(End)	09/11/15 16:51		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B07 (0-2)**

**Lab Sample ID: 500-100875-11**

**Date Collected: 09/04/15 07:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 80.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 14:20	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304247	09/15/15 02:19	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 06:37	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:12	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:28	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:01		
					(End)	09/14/15 23:01		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

**Date Collected: 09/04/15 07:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 17:28	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:25	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:29	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:21	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:06	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:31	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 16:51		
					(End)	09/11/15 16:57		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B06 (0-2)**

**Lab Sample ID: 500-100875-12**

**Date Collected: 09/04/15 07:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 14:45	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 17:23	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 06:44	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:17	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:30	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:01		
					(End)	09/14/15 23:01		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

**Date Collected: 09/04/15 08:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 17:35	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:32	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:30	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:22	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:12	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:33	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 16:57		
					(End)	09/11/15 17:03		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B05 (0-2)**

**Lab Sample ID: 500-100875-13**

**Date Collected: 09/04/15 08:00**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 81.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 15:11	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304247	09/15/15 02:42	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 06:51	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:22	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:32	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:01		
					(End)	09/14/15 23:02		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

**Date Collected: 09/04/15 08:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 17:43	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:39	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:32	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:23	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:14	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 17:09		
					(End)	09/11/15 17:15		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B05 DUP (0-2)**

**Lab Sample ID: 500-100875-14**

**Date Collected: 09/04/15 08:05**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 15:36	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304247	09/15/15 03:05	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:34	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:35	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:02		
					(End)	09/14/15 23:02		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

**Date Collected: 09/04/15 08:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 17:50	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:45	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:34	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:24	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:16	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 17:15		
					(End)	09/11/15 17:21		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B04 (0-2)**

**Lab Sample ID: 500-100875-15**

**Date Collected: 09/04/15 08:20**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 16:01	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/15/15 17:17	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304290	09/15/15 06:58	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:38	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:36	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:03		
					(End)	09/14/15 23:03		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

**Date Collected: 09/04/15 08:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 18:12	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 00:52	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:35	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:25	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:18	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 17:21		
					(End)	09/11/15 17:27		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B03 (0-2)**

**Lab Sample ID: 500-100875-16**

**Date Collected: 09/04/15 08:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 16:26	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 19:54	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:43	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:38	MJD	TAL CHI
Total/NA	Prep	9010B			304221	09/14/15 20:55	ELR	TAL CHI
Total/NA	Analysis	9014		1	304333		SSF	TAL CHI
					(Start)	09/14/15 23:03		
					(End)	09/14/15 23:03		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B01 (0-2)**

**Lab Sample ID: 500-100875-17**

**Date Collected: 09/04/15 08:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 18:19	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 01:15	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:37	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:26	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:20	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:41	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 17:27		
					(End)	09/11/15 17:33		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B01 (0-2)**

**Lab Sample ID: 500-100875-17**

**Date Collected: 09/04/15 08:40**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 16:51	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 17:48	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 07:04	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:47	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:44	MJD	TAL CHI
Total/NA	Prep	9010B			304344	09/15/15 15:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304392		ELR	TAL CHI
					(Start)	09/15/15 17:26		
					(End)	09/15/15 17:26		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B158 (0-2)**

**Lab Sample ID: 500-100875-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 18:26	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 01:22	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:39	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:27	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:22	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:43	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 17:33		
					(End)	09/11/15 17:39		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B158 (0-2)**

**Lab Sample ID: 500-100875-18**

**Date Collected: 09/04/15 11:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 17:16	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 18:14	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 07:11	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:52	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:47	MJD	TAL CHI
Total/NA	Prep	9010B			304344	09/15/15 15:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304392		ELR	TAL CHI
					(Start)	09/15/15 17:26		
					(End)	09/15/15 17:26		

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B157 (0-2)**

**Lab Sample ID: 500-100875-19**

**Date Collected: 09/04/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 18:33	PJ1	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 01:29	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:40	PFK	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:30	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:24	MJD	TAL CHI
TCLP	Leach	1311			304396	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:49	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 17:39		
					(End)	09/11/15 17:45		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B157 (0-2)**

**Lab Sample ID: 500-100875-19**

**Date Collected: 09/04/15 11:25**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 17:41	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304461	09/16/15 18:39	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 07:18	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 03:57	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:49	MJD	TAL CHI
Total/NA	Prep	9010B			304344	09/15/15 15:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304392		ELR	TAL CHI
					(Start)	09/15/15 17:26		
					(End)	09/15/15 17:27		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100875-1

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

**Date Collected: 09/04/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 18:40	PJ1	TAL CHI
TCLP	Leach	1311			304398	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304648	09/17/15 01:35	PJ1	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304421	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 10:42	PFK	TAL CHI
TCLP	Leach	1311			304398	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	3010A			304531	09/16/15 10:30	JML	TAL CHI
TCLP	Analysis	6020A		1	304699	09/17/15 11:31	PFK	TAL CHI
SPLP East	Leach	1312			304208	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304417	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304547	09/16/15 12:26	MJD	TAL CHI
TCLP	Leach	1311			304398	09/15/15 16:38	FXG	TAL CHI
TCLP	Prep	7470A			304581	09/16/15 17:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	304727	09/17/15 10:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304107		SMO	TAL CHI
					(Start)	09/11/15 17:45		
					(End)	09/11/15 17:51		
Total/NA	Analysis	Moisture		1	303429	09/08/15 17:37	LWN	TAL CHI

**Client Sample ID: 2618-7-B141 (0-2)**

**Lab Sample ID: 500-100875-20**

**Date Collected: 09/04/15 13:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			303535	09/04/15 22:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 18:06	JMP	TAL CHI
Total/NA	Prep	3541			303853	09/11/15 07:33	STW	TAL CHI
Total/NA	Analysis	8270D		1	304318	09/15/15 19:02	BJH	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		5	304290	09/15/15 07:25	PJ1	TAL CHI
Total/NA	Prep	3050B			303879	09/11/15 08:45	JML	TAL CHI
Total/NA	Analysis	6010B		1	304084	09/12/15 04:02	PJ1	TAL CHI
Total/NA	Prep	7471B			303936	09/11/15 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304219	09/14/15 15:51	MJD	TAL CHI
Total/NA	Prep	9010B			304344	09/15/15 15:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304392		ELR	TAL CHI
					(Start)	09/15/15 17:27		
					(End)	09/15/15 17:27		

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TestAmerica Chicago

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6C  
Phone: 708.534.5200 Fax: 708.534.5200



500-100875 COC

Report To (optional) \_\_\_\_\_  
Contact: MATWESS  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional) \_\_\_\_\_  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100875

Chain of Custody Number: \_\_\_\_\_

Page 9 of 10

2.6, 3.2, 3.6, 2.4  
2.8, 3.2, 3.7, 2.1, 2.4, 3.1, 3.0  
Temperature of Cooler

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Client	Client Project #	Preservative	Parameter	Lab ID	MS/MSD	Sample ID	TIME	DATE	# of Containers	Matrix	VOCS	SVOCS	TOTAL	TRCP	SPLP	PH	Comments
<u>TERRACON</u>	<u>157108</u>			<u>1</u>		<u>2618-7-B156 (0-2)</u>	<u>1130</u>	<u>9/4</u>	<u>6</u>	<u>SO</u>	X	X	X	X	X	X	
Project Name	Lab Project #			<u>2</u>		<u>B155 (0-2)</u>	<u>1135</u>										
Project Location/State	Lab PM			<u>3</u>		<u>B155 Dup (0-2)</u>	<u>1140</u>										
Sampler				<u>4</u>		<u>B154</u>	<u>1150</u>										
				<u>5</u>		<u>B153</u>	<u>1200</u>										
				<u>6</u>		<u>B152</u>	<u>1205</u>										
				<u>7</u>		<u>B151</u>	<u>1210</u>										
				<u>8</u>		<u>B150</u>	<u>1220</u>										
				<u>9</u>		<u>B149</u>	<u>1230</u>										
				<u>10</u>		<u>B148</u>	<u>1255</u>										

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>TERRACON</u>	Date <u>9/4/15</u>	Time <u>1600</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>1600</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>1855</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>9/4/15</u>	Time <u>2100</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier TA  
Shipped \_\_\_\_\_  
Hand Delivered \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: SAME SEE PG. 1

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: MATT WELLS Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100875

Chain of Custody Number: \_\_\_\_\_

Page 10 of 10  
 Temperature of Cooler: 2, 6, 3, 2, 3, 1, 2, 4, 3, 1, 3, 0,

Client		Client Project #		Preservative		Parameter		Temperature of Cooler		Preservative Key	
<u>TERRACON</u>		<u>1157108</u>				<u>VOCs SVCS TOTAL TELP SPC PA</u>		<u>2, 6, 3, 2, 3, 1, 2, 4, 3, 1, 3, 0,</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Comments	
		<u>HOFFMAN ESTATES</u>				<u>T BULLANA</u>					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>11</u>		<del>2018-7-2018-7-B07(0-2)</del>	<u>9/4</u>	<u>740</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>2018-7-B06(0-2)</u>		<u>750</u>							
<u>13</u>		<u>2018-7-B05(0-2)</u>		<u>800</u>							
<u>14</u>		<u>11-11-11 DUPLICATE</u>		<u>805</u>							
<u>15</u>		<u>2018-7-B04(0-2)</u>		<u>820</u>							
<u>16</u>		<u>2018-7-B03(0-2)</u>		<u>825</u>	<u>4</u>	<u>4</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
		<del>2018-7-B02(0-2)</del>									
<u>17</u>		<u>2018-7-B01(0-2)</u>		<u>840</u>							
<u>18</u>		<u>2018-7-B158(0-2)</u>		<u>1115</u>							
<u>19</u>		<u>2018-7-B157(0-2)</u>		<u>1125</u>							
<u>20</u>		<u>2018-7-B141(0-2)</u>	<u>9/4</u>	<u>1345</u>							

Round Time Required (Business Days) \_\_\_\_\_  
 Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other  
 Sample Disposal:  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/4/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1600</u>	Lab Courier: <u>JA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>1855</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>2100</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

<p>Matrix Key</p> <p>WW - Wastewater SE - Sediment                  W - Water SO - Soil                  S - Soil L - Leachate                  SL - Sludge WI - Wipe                  MS - Miscellaneous DW - Drinking Water                  OL - Oil O - Other                  A - Air</p>	<p>Client Comments</p> <p><u>SAME</u> <u>SEE PS. 1</u></p>	<p>Lab Comments:</p>
--	--	----------------------

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100875-1

**Login Number: 100875**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington Rd Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

Intersection of Route IL 58 Road and New Sutton Road IDOT STA 497+60 to 501+80 (ISGS Site 2618-9)

City: Hoffman Estates State: IL Zip Code: 60107

County: Cook Township: Schaumburg

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.04556 Longitude: -88.19388  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 559-IL58-Rohrssen Rd to west of Barrington F

Latitude: 42.04556 Longitude: -88.19388

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from borings B01, B02 and B04 were sampled adjacent to ISGS Site No 2618-9. See Exhibits 4, 4C, 4D and Table 15 of the Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J100839 and J100873.  
Also see Preliminary Site Investigation Report prepared by Terracon dated December 16, 2015. CCDD/USFO facility in MSA County.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

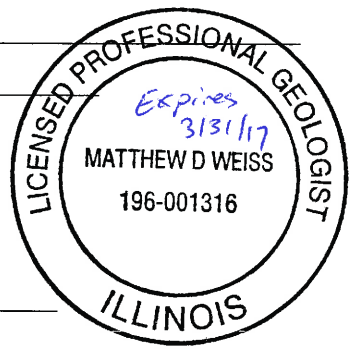
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss  
Printed Name:

[Signature]  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

12/16/15  
Date:



P.E. or L.P.G. Seal:

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B01 (0-6)	2618-9-B01 (6-13)	2618-9-B01 DUP (6-13)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)	(6-13)
		mg/kg	Chicago	MSAs	Date Collected	09/03/2015	09/03/2015	09/03/2015
		pH 6.25-9.0						
<b>Volatile Organic Analytical Parameters</b>								
Benzene	mg/kg	---	---	0.03		<0.0050	<0.0055	<0.0059
Toluene	mg/kg	---	---	12		<0.0050	<0.0055	<0.0059
Ethylbenzene	mg/kg	---	---	13		<0.0050	<0.0055	<0.0059
Xylenes (total)	mg/kg	---	---	5.6		<0.010	<0.011	<0.012
Methyl Tertiary-Butyl Ether	mg/kg	---	---	0.32		<0.0050	<0.0055	<0.0059
Acetone	mg/kg	---	---	25		<0.020	0.022	0.032
Bromodichloromethane	mg/kg	---	---	0.6		<0.0050	<0.0055	<0.0059
Bromoform	mg/kg	---	---	0.8		<0.0050	<0.0055	<0.0059
Bromomethane	mg/kg	---	---	0.2		<0.0050	<0.0055	<0.0059
2-Butanone	mg/kg	---	---	17		<0.0050	<0.0055	<0.0059
Carbon Disulfide	mg/kg	---	---	9		<0.0050	<0.0055	<0.0059
Carbon Tetrachloride	mg/kg	---	---	0.07		<0.0050	<0.0055	<0.0059
Chlorobenzene	mg/kg	---	---	1		<0.0050	<0.0055	<0.0059
Chloroethane	mg/kg	---	---	---		<0.0050	<0.0055	<0.0059
Chloroform	mg/kg	---	---	0.3		<0.0050	<0.0055	<0.0059
Chloromethane	mg/kg	---	---	---		<0.0050	<0.0055	<0.0059
cis-1,2-Dichloroethene	mg/kg	---	---	0.4		<0.0050	<0.0055	<0.0059
Dibromochloromethane	mg/kg	---	---	0.4		<0.0050	<0.0055	<0.0059
1,1-Dichloroethane	mg/kg	---	---	23		<0.0050	<0.0055	<0.0059
1,2-Dichloroethane	mg/kg	---	---	0.02		<0.0050	<0.0055	<0.0059
1,1-Dichloroethene	mg/kg	---	---	0.06		<0.0050	<0.0055	<0.0059
1,2-Dichloropropane	mg/kg	---	---	0.03		<0.0050	<0.0055	<0.0059
1,3-Dichloropropene (cis + trans)	mg/kg	---	---	0.005		<0.0050	<0.0055	<0.0059
2-Hexanone	mg/kg	---	---	---		<0.0050	<0.0055	<0.0059
4-Methyl-2-pentanone	mg/kg	---	---	---		<0.0050	<0.0055	<0.0059
Methylene Chloride	mg/kg	---	---	0.02		<0.0050	<0.0055	<0.0059
Styrene	mg/kg	---	---	4		<0.0050	<0.0055	<0.0059
1,1,2,2-Tetrachloroethane	mg/kg	---	---	---		<0.0050	<0.0055	<0.0059
Tetrachloroethene	mg/kg	---	---	0.06		<0.0050	<0.0055	<0.0059
trans-1,2-Dichloroethene	mg/kg	---	---	0.7		<0.0050	<0.0055	<0.0059
Trichloroethene	mg/kg	---	---	0.06		<0.0050	<0.0055	<0.0059
1,1,1-Trichloroethane	mg/kg	---	---	2		<0.0050	<0.0055	<0.0059
1,1,2-Trichloroethane	mg/kg	---	---	0.02		<0.0050	<0.0055	<0.0059
Vinyl Chloride	mg/kg	---	---	0.01		<0.0050	<0.0055	<0.0059
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthene	mg/kg	0.09	0.13	570		<0.038	<0.038	<0.043
Acenaphthylene	mg/kg	0.03	0.07	85		<0.038	<0.038	<0.043
Anthracene	mg/kg	0.25	0.4	12000		0.015	<0.038	<0.043
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.054	<0.038	<0.043
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.05	<0.038	<0.043
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.089	<0.038	<0.043
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.017	<0.038	<0.043
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.033	<0.038	<0.043
Chrysene	mg/kg	1.2	2.7	88		0.061	<0.038	<0.043
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.038	<0.043
Fluoranthene	mg/kg	2.7	4.1	3100		0.12	<0.038	<0.043
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.038	<0.043
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.022	<0.038	<0.043
Naphthalene	mg/kg	0.04	0.2	1.8		<0.038	<0.038	<0.043
Phenanthrene	mg/kg	1.3	2.5	210		0.037	<0.038	<0.043
Pyrene	mg/kg	1.9	3.0	2300		0.12	<0.038	0.011
bis(2-Chloroethoxy) methane	mg/kg	---	---	---		<0.19	<0.19	<0.22
bis(2-Chloroethyl) ether	mg/kg	---	---	0.66		<0.19	<0.19	<0.22



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B01 (0-6)	2618-9-B01 (6-13)	2618-9-B01 DUP (6-13)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)	(6-13)
				mg/kg	Date Collected	09/03/2015	09/03/2015	09/03/2015
				pH 6.25-9.0				
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.19	<0.22
4-Bromophenyl-phenyl ether	mg/kg	---	---	---		<0.19	<0.19	<0.22
Butylbenzylphthalate	mg/kg	---	---	930		<0.19	<0.19	<0.22
Carbazole	mg/kg	---	---	0.6		<0.19	<0.19	<0.22
4-Chloroaniline	mg/kg	---	---	0.7		<0.78	<0.76	<0.87
2-Chloronaphthalene	mg/kg	---	---	---		<0.19	<0.19	<0.22
4-Chloro-3-methylphenol	mg/kg	---	---	---		<0.38	<0.38	<0.43
2-Chlorophenol	mg/kg	---	---	1.5		<0.19	<0.19	<0.22
4-Chlorophenyl-phenyl ether	mg/kg	---	---	---		<0.19	<0.19	<0.22
Dibenzofuran	mg/kg	---	---	---		<0.19	<0.19	<0.22
1,2-Dichlorobenzene	mg/kg	---	---	17		<0.19	<0.19	<0.22
1,3-Dichlorobenzene	mg/kg	---	---	---		<0.19	<0.19	<0.22
1,4-Dichlorobenzene	mg/kg	---	---	2		<0.19	<0.19	<0.22
3,3'-Dichlorobenzidine	mg/kg	---	---	1.3		<0.19	<0.19	<0.22
2,4-Dichlorophenol	mg/kg	---	---	0.48		<0.38	<0.38	<0.43
Diethylphthalate	mg/kg	---	---	470		<0.19	<0.19	<0.22
Dimethylphthalate	mg/kg	---	---	---		<0.19	<0.19	<0.22
Di-n-butylphthalate	mg/kg	---	---	2300		<0.19	<0.19	<0.22
2,4-Dimethylphenol	mg/kg	---	---	9		<0.38	<0.38	<0.43
4,6-Dinitro-2-methylphenol	mg/kg	---	---	---		<0.78	<0.76	<0.87
2,4-Dinitrophenol	mg/kg	---	---	3.3		<0.78	<0.76	<0.87
2,4-Dinitrotoluene	mg/kg	---	---	0.25		<0.19	<0.19	<0.22
2,6-dinitrotoluene	mg/kg	---	---	0.26		<0.19	<0.19	<0.22
Di-n-octylphthalate	mg/kg	---	---	1600		<0.19	<0.19	<0.22
Hexachlorobenzene	mg/kg	---	---	0.4		<0.078	<0.076	<0.087
Hexachlorobutadiene	mg/kg	---	---	---		<0.19	<0.19	<0.22
Hexachlorocyclopentadiene	mg/kg	---	---	1.1		<0.78	<0.76	<0.87
Hexachloroethane	mg/kg	---	---	0.5		<0.19	<0.19	<0.22
Isophorone	mg/kg	---	---	8		<0.19	<0.19	<0.22
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.038	<0.038	<0.043
2-Methylphenol	mg/kg	---	---	15		<0.19	<0.19	<0.22
3 & 4-Methylphenol **	mg/kg	---	---	---		<0.19	<0.19	<0.22
2-Nitroaniline	mg/kg	---	---	---		<0.19	<0.19	<0.22
3-Nitroaniline	mg/kg	---	---	---		<0.38	<0.38	<0.43
4-Nitroaniline	mg/kg	---	---	---		<0.38	<0.38	<0.43
Nitrobenzene	mg/kg	---	---	0.26		<0.038	<0.038	<0.043
2-Nitrophenol	mg/kg	---	---	---		<0.38	<0.38	<0.43
4-Nitrophenol	mg/kg	---	---	---		<0.78	<0.76	<0.87
N-Nitroso-di-n-propylamine	mg/kg	---	---	0.0018		<0.19	<0.19	<0.22
N-nitrosodiphenylamine	mg/kg	---	---	1		<0.19	<0.19	<0.22
2,2'-oxybis (1-chloropropane)	mg/kg	---	---	---		<0.19	<0.19	<0.22
Pentachlorophenol	mg/kg	---	---	0.02		<0.78	<0.76	<0.87
Phenol	mg/kg	---	---	100		<0.19	<0.19	<0.22
1,2,4-Trichlorobenzene	mg/kg	---	---	5		<0.19	<0.19	<0.22
2,4,5-Trichlorophenol	mg/kg	---	---	26		<0.38	<0.38	<0.43
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.38	<0.38	<0.43
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		9.5	0.96	4.6
Barium	mg/kg	---	110	1500		59	53	99
Cadmium	mg/kg	---	0.6	5.2		0.7	0.2	0.55
Chromium, total	mg/kg	---	16.2	21		18	12	18
Lead	mg/kg	---	36	107		13	7.8	19
Mercury	mg/kg	---	0.06	0.1		0.038	0.019	0.053
Selenium	mg/kg	---	0.48	1.3		<0.56	0.39	0.43
Silver	mg/kg	---	0.55	4.4		0.093	<0.29	<0.32
Antimony	mg/kg	---	4.0	5		0.23	<1.2	<1.3
Beryllium	mg/kg	---	0.59	22		0.68	0.48	0.77
Calcium	mg/kg	---	9,300	---		84000	2700	18000
Cobalt	mg/kg	---	8.9	20		15	3	7.2
Copper	mg/kg	---	19.6	2900		25	7.8	16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B01 (0-6)	2618-9-B01 (6-13)	2618-9-B01 DUP (6-13)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)	(6-13)
				mg/kg	Date Collected	09/03/2015	09/03/2015	09/03/2015
				pH 6.25-9.0				
Cyanide	mg/kg	---	0.51	---		<0.57	<0.59	<0.65
Iron	mg/kg	---	15,900	15000		22000	8900	20000
Magnesium	mg/kg	---	4,820	325000		41000	2100	11000
Manganese	mg/kg	---	636	630		700	120	210
Nickel	mg/kg	---	18	100		29	6.5	14
Potassium	mg/kg	---	1,268	---		3100	680	1200
Sodium	mg/kg	---	130	---		190	520	850
Thallium	mg/kg	---	0.32	2.6		1.7	0.77	0.96
Vanadium	mg/kg	---	25.2	550		22	16	28
Zinc	mg/kg	---	95	5100		56	36	55
pH			6.25	9		8.25	8.21	8.28
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.014	<0.050	0.017
Barium,SPLP	mg/L	---	---	---		0.23	1.3	0.44
Beryllium,SPLP	mg/L	---	---	---		<0.0040	0.0082	<0.0040
Cadmium,SPLP	mg/L	---	---	---		0.002	0.0061	0.0024
Calcium,SPLP	mg/L	---	---	---		20	47	30
Chromium,SPLP	mg/L	---	---	---		0.04	0.2	0.07
Cobalt,SPLP	mg/L	---	---	---		<0.025	0.044	0.023
Copper,SPLP	mg/L	---	---	---		0.052	0.18	0.079
Iron,SPLP	mg/L	---	---	---		41	160	73
Lead,SPLP	mg/L	---	---	---		0.023	0.15	0.068
Magnesium,SPLP	mg/L	---	---	---		12	37	18
Manganese,SPLP	mg/L	---	---	---		0.13	0.72	0.52
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.036	0.14	0.07
Potassium,SPLP	mg/L	---	---	---		9.2	13	12
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		---	---	---
Thallium,SPLP	mg/L	---	---	---		<0.0020	0.002	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.068	0.29	0.11
Zinc,SPLP	mg/L	---	---	---		0.74	0.83	0.87
Cyanide,SPLP	mg/L	---	---	---		---	---	---
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.37	0.42	0.36
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		330	250	240
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.016	<0.025
Copper,TCLP	mg/L	---	---	---		0.013	<0.025	0.012
Cyanide,TCLP	mg/L	---	---	---		---	---	---
Iron,TCLP	mg/L	---	---	---		<0.20	0.21	0.37
Magnesium,TCLP	mg/L	---	---	---		120	74	100
Manganese,TCLP	mg/L	---	---	---		0.019	5.2	0.66
Nickel,TCLP	mg/L	---	---	---		<0.025	0.014	<0.025
Potassium,TCLP	mg/L	---	---	---		2.9	3.3	4.1
Sodium,TCLP	mg/L	---	---	---		---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.39	0.046	1.3

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B02 (0-6)	2618-9-B02 (6-13)	2618-9-B04 (0-6)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)	(0-6)
		mg/kg	Date Collected	09/03/2015	09/03/2015	09/04/2015		
		pH 6.25-9.0		Chicago	MSAs			
<b>Volatile Organic Analytical Parameters</b>								
Benzene	mg/kg	---	---	0.03		<0.0056	<0.0053	<0.0047
Toluene	mg/kg	---	---	12		<0.0056	<0.0053	<0.0047
Ethylbenzene	mg/kg	---	---	13		<0.0056	<0.0053	<0.0047
Xylenes (total)	mg/kg	---	---	5.6		<0.011	<0.011	<0.0093
Methyl Tertiary-Butyl Ether	mg/kg	---	---	0.32		<0.0056	<0.0053	<0.0047
Acetone	mg/kg	---	---	25		0.029	0.033	<0.019
Bromodichloromethane	mg/kg	---	---	0.6		<0.0056	<0.0053	<0.0047
Bromoform	mg/kg	---	---	0.8		<0.0056	<0.0053	<0.0047
Bromomethane	mg/kg	---	---	0.2		<0.0056	<0.0053	<0.0047
2-Butanone	mg/kg	---	---	17		<0.0056	<0.0053	<0.0047
Carbon Disulfide	mg/kg	---	---	9		<0.0056	<0.0053	<0.0047
Carbon Tetrachloride	mg/kg	---	---	0.07		<0.0056	<0.0053	<0.0047
Chlorobenzene	mg/kg	---	---	1		<0.0056	<0.0053	<0.0047
Chloroethane	mg/kg	---	---	---		<0.0056	<0.0053	<0.0047
Chloroform	mg/kg	---	---	0.3		<0.0056	<0.0053	<0.0047
Chloromethane	mg/kg	---	---	---		<0.0056	<0.0053	<0.0047
cis-1,2-Dichloroethene	mg/kg	---	---	0.4		<0.0056	<0.0053	<0.0047
Dibromochloromethane	mg/kg	---	---	0.4		<0.0056	<0.0053	<0.0047
1,1-Dichloroethane	mg/kg	---	---	23		<0.0056	<0.0053	<0.0047
1,2-Dichloroethane	mg/kg	---	---	0.02		<0.0056	<0.0053	<0.0047
1,1-Dichloroethene	mg/kg	---	---	0.06		<0.0056	<0.0053	<0.0047
1,2-Dichloropropane	mg/kg	---	---	0.03		<0.0056	<0.0053	<0.0047
1,3-Dichloropropene (cis + trans)	mg/kg	---	---	0.005		<0.0056	<0.0053	<0.0047
2-Hexanone	mg/kg	---	---	---		<0.0056	<0.0053	<0.0047
4-Methyl-2-pentanone	mg/kg	---	---	---		<0.0056	<0.0053	<0.0047
Methylene Chloride	mg/kg	---	---	0.02		<0.0056	<0.0053	<0.0047
Styrene	mg/kg	---	---	4		<0.0056	<0.0053	<0.0047
1,1,2,2-Tetrachloroethane	mg/kg	---	---	---		<0.0056	<0.0053	<0.0047
Tetrachloroethene	mg/kg	---	---	0.06		<0.0056	<0.0053	<0.0047
trans-1,2-Dichloroethene	mg/kg	---	---	0.7		<0.0056	<0.0053	<0.0047
Trichloroethene	mg/kg	---	---	0.06		<0.0056	<0.0053	<0.0047
1,1,1-Trichloroethane	mg/kg	---	---	2		<0.0056	<0.0053	<0.0047
1,1,2-Trichloroethane	mg/kg	---	---	0.02		<0.0056	<0.0053	<0.0047
Vinyl Chloride	mg/kg	---	---	0.01		<0.0056	<0.0053	<0.0047
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthene	mg/kg	0.09	0.13	570		<0.041	<0.039	0.0072
Acenaphthylene	mg/kg	0.03	0.07	85		<0.041	<0.039	0.039
Anthracene	mg/kg	0.25	0.4	12000		<0.041	<0.039	0.053
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.013	0.012	0.22
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.041	0.0095	0.23
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.016	0.015	0.36
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.041	<0.039	0.094
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.041	<0.039	0.15
Chrysene	mg/kg	1.2	2.7	88		0.012	0.013	0.25
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.041	<0.039	0.033
Fluoranthene	mg/kg	2.7	4.1	3100		0.032	0.028	0.36
Fluorene	mg/kg	0.1	0.18	560		<0.041	<0.039	0.016
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.041	<0.039	0.1
Naphthalene	mg/kg	0.04	0.2	1.8		<0.041	<0.039	0.0065
Phenanthrene	mg/kg	1.3	2.5	210		0.02	0.022	0.19
Pyrene	mg/kg	1.9	3.0	2300		0.024	0.023	0.45
bis(2-Chloroethoxy) methane	mg/kg	---	---	---		<0.21	<0.20	<0.18
bis(2-Chloroethyl) ether	mg/kg	---	---	0.66		<0.21	<0.20	<0.18

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B02 (0-6)	2618-9-B02 (6-13)	2618-9-B04 (0-6)	
				CCDD	Sample Depth (feet)	(0-6)	(6-13)	(0-6)	
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	09/03/2015	09/03/2015	09/04/2015
		pH 6.25-9.0							
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.21	<0.20	<0.18	
4-Bromophenyl-phenyl ether	mg/kg	---	---	---		<0.21	<0.20	<0.18	
Butylbenzylphthalate	mg/kg	---	---	930		<0.21	<0.20	<0.18	
Carbazole	mg/kg	---	---	0.6		<0.21	<0.20	<0.18	
4-Chloroaniline	mg/kg	---	---	0.7		<0.84	<0.80	<0.73	
2-Chloronaphthalene	mg/kg	---	---	---		<0.21	<0.20	<0.18	
4-Chloro-3-methylphenol	mg/kg	---	---	---		<0.41	<0.39	<0.36	
2-Chlorophenol	mg/kg	---	---	1.5		<0.21	<0.20	<0.18	
4-Chlorophenyl-phenyl ether	mg/kg	---	---	---		<0.21	<0.20	<0.18	
Dibenzofuran	mg/kg	---	---	---		<0.21	<0.20	<0.18	
1,2-Dichlorobenzene	mg/kg	---	---	17		<0.21	<0.20	<0.18	
1,3-Dichlorobenzene	mg/kg	---	---	---		<0.21	<0.20	<0.18	
1,4-Dichlorobenzene	mg/kg	---	---	2		<0.21	<0.20	<0.18	
3,3'-Dichlorobenzidine	mg/kg	---	---	1.3		<0.21	<0.20	<0.18	
2,4-Dichlorophenol	mg/kg	---	---	0.48		<0.41	<0.39	<0.36	
Diethylphthalate	mg/kg	---	---	470		<0.21	<0.20	<0.18	
Dimethylphthalate	mg/kg	---	---	---		<0.21	<0.20	<0.18	
Di-n-butylphthalate	mg/kg	---	---	2300		<0.21	<0.20	<0.18	
2,4-Dimethylphenol	mg/kg	---	---	9		<0.41	<0.39	<0.36	
4,6-Dinitro-2-methylphenol	mg/kg	---	---	---		<0.84	<0.80	<0.73	
2,4-Dinitrophenol	mg/kg	---	---	3.3		<0.84	<0.80	<0.73	
2,4-Dinitrotoluene	mg/kg	---	---	0.25		<0.21	<0.20	<0.18	
2,6-dinitrotoluene	mg/kg	---	---	0.26		<0.21	<0.20	<0.18	
Di-n-octylphthalate	mg/kg	---	---	1600		<0.21	<0.20	<0.18	
Hexachlorobenzene	mg/kg	---	---	0.4		<0.084	<0.080	<0.073	
Hexachlorobutadiene	mg/kg	---	---	---		<0.21	<0.20	<0.18	
Hexachlorocyclopentadiene	mg/kg	---	---	1.1		<0.84	<0.80	<0.73	
Hexachloroethane	mg/kg	---	---	0.5		<0.21	<0.20	<0.18	
Isophorone	mg/kg	---	---	8		<0.21	<0.20	<0.18	
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.041	<0.039	<0.036	
2-Methylphenol	mg/kg	---	---	15		<0.21	<0.20	<0.18	
3 & 4-Methylphenol **	mg/kg	---	---	---		<0.21	<0.20	<0.18	
2-Nitroaniline	mg/kg	---	---	---		<0.21	<0.20	<0.18	
3-Nitroaniline	mg/kg	---	---	---		<0.41	<0.39	<0.36	
4-Nitroaniline	mg/kg	---	---	---		<0.41	<0.39	<0.36	
Nitrobenzene	mg/kg	---	---	0.26		<0.041	<0.039	<0.036	
2-Nitrophenol	mg/kg	---	---	---		<0.41	<0.39	<0.36	
4-Nitrophenol	mg/kg	---	---	---		<0.84	<0.80	<0.73	
N-Nitroso-di-n-propylamine	mg/kg	---	---	0.0018		<0.21	<0.20	<0.18	
N-nitrosodiphenylamine	mg/kg	---	---	1		<0.21	<0.20	<0.18	
2,2'-oxybis (1-chloropropane)	mg/kg	---	---	---		<0.21	<0.20	<0.18	
Pentachlorophenol	mg/kg	---	---	0.02		<0.84	<0.80	<0.73	
Phenol	mg/kg	---	---	100		<0.21	<0.20	<0.18	
1,2,4-Trichlorobenzene	mg/kg	---	---	5		<0.21	<0.20	<0.18	
2,4,5-Trichlorophenol	mg/kg	---	---	26		<0.41	<0.39	<0.36	
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.41	<0.39	<0.36	
<b>Inorganic Analytical Parameters</b>									
Arsenic	mg/kg	---	13	11.3		4.2	8.7	6.9	
Barium	mg/kg	---	110	1500		120	120	70	
Cadmium	mg/kg	---	0.6	5.2		0.48	0.63	0.064	
Chromium, total	mg/kg	---	16.2	21		24	20	15	
Lead	mg/kg	---	36	107		14	14	20	
Mercury	mg/kg	---	0.06	0.1		0.04	0.04	0.036	
Selenium	mg/kg	---	0.48	1.3		<0.59	0.7	<0.57	
Silver	mg/kg	---	0.55	4.4		<0.29	<0.30	<0.29	
Antimony	mg/kg	---	4.0	5		0.34	0.35	0.28	
Beryllium	mg/kg	---	0.59	22		0.94	0.88	0.59	
Calcium	mg/kg	---	9,300	---		4200	9700	38000	
Cobalt	mg/kg	---	8.9	20		8.7	11	6.3	
Copper	mg/kg	---	19.6	2900		12	16	19	

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B02 (0-6)	2618-9-B02 (6-13)	2618-9-B04 (0-6)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)	(0-6)
				mg/kg	Date Collected	09/03/2015	09/03/2015	09/04/2015
				pH 6.25-9.0				
Chicago	MSAs							
Cyanide	mg/kg	---	0.51	---		<0.63	<0.57	<0.55
Iron	mg/kg	---	15,900	15000		25000	29000	18000
Magnesium	mg/kg	---	4,820	325000		4900	7300	24000
Manganese	mg/kg	---	636	630		200	440	300
Nickel	mg/kg	---	18	100		17	18	16
Potassium	mg/kg	---	1,268	---		1500	1700	1600
Sodium	mg/kg	---	130	---		1000	1300	400
Thallium	mg/kg	---	0.32	2.6		0.88	1.2	0.87
Vanadium	mg/kg	---	25.2	550		33	35	20
Zinc	mg/kg	---	95	5100		53	49	47
pH			6.25	9		8.04	7.88	8.43
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050	<0.050	0.026
Barium,SPLP	mg/L	---	---	---		0.5	0.41	0.27
Beryllium,SPLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Cadmium,SPLP	mg/L	---	---	---		0.0022	0.0027	<0.0050
Calcium,SPLP	mg/L	---	---	---		18	16	28
Chromium,SPLP	mg/L	---	---	---		0.063	0.066	0.052
Cobalt,SPLP	mg/L	---	---	---		0.012	0.019	0.02
Copper,SPLP	mg/L	---	---	---		0.04	0.073	0.057
Iron,SPLP	mg/L	---	---	---		62	63	59
Lead,SPLP	mg/L	---	---	---		<0.038	0.046	0.039
Magnesium,SPLP	mg/L	---	---	---		16	15	18
Manganese,SPLP	mg/L	---	---	---		0.31	0.87	0.3
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.041	0.06	0.058
Potassium,SPLP	mg/L	---	---	---		8.5	9.9	9.2
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		---	---	---
Thallium,SPLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.099	0.11	0.059
Zinc,SPLP	mg/L	---	---	---		0.37	0.25	0.22
Cyanide,SPLP	mg/L	---	---	---		---	---	---
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.26	0.49	0.47
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		67	190	330
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.015	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	0.01
Cyanide,TCLP	mg/L	---	---	---		---	---	---
Iron,TCLP	mg/L	---	---	---		0.2	0.24	<0.20
Magnesium,TCLP	mg/L	---	---	---		27	85	120
Manganese,TCLP	mg/L	---	---	---		1.7	7.4	0.014
Nickel,TCLP	mg/L	---	---	---		<0.025	0.011	<0.025
Potassium,TCLP	mg/L	---	---	---		3	4.5	2.7
Sodium,TCLP	mg/L	---	---	---		---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.084	0.059	0.2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B04 (6-13)
				CCDD	Sample Depth (feet)	(6-13)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	09/04/2015
<b>Volatile Organic Analytical Parameters</b>						
Benzene	mg/kg	---	---	0.03		<0.0058
Toluene	mg/kg	---	---	12		<0.0058
Ethylbenzene	mg/kg	---	---	13		<0.0058
Xylenes (total)	mg/kg	---	---	5.6		<0.012
Methyl Tertiary-Butyl Ether	mg/kg	---	---	0.32		<0.0058
Acetone	mg/kg	---	---	25		<0.023
Bromodichloromethane	mg/kg	---	---	0.6		<0.0058
Bromoform	mg/kg	---	---	0.8		<0.0058
Bromomethane	mg/kg	---	---	0.2		<0.0058
2-Butanone	mg/kg	---	---	17		<0.0058
Carbon Disulfide	mg/kg	---	---	9		<0.0058
Carbon Tetrachloride	mg/kg	---	---	0.07		<0.0058
Chlorobenzene	mg/kg	---	---	1		<0.0058
Chloroethane	mg/kg	---	---	---		<0.0058
Chloroform	mg/kg	---	---	0.3		<0.0058
Chloromethane	mg/kg	---	---	---		<0.0058
cis-1,2-Dichloroethene	mg/kg	---	---	0.4		<0.0058
Dibromochloromethane	mg/kg	---	---	0.4		<0.0058
1,1-Dichloroethane	mg/kg	---	---	23		<0.0058
1,2-Dichloroethane	mg/kg	---	---	0.02		<0.0058
1,1-Dichloroethene	mg/kg	---	---	0.06		<0.0058
1,2-Dichloropropane	mg/kg	---	---	0.03		<0.0058
1,3-Dichloropropene (cis + trans)	mg/kg	---	---	0.005		<0.0058
2-Hexanone	mg/kg	---	---	---		<0.0058
4-Methyl-2-pentanone	mg/kg	---	---	---		<0.0058
Methylene Chloride	mg/kg	---	---	0.02		<0.0058
Styrene	mg/kg	---	---	4		<0.0058
1,1,2,2-Tetrachloroethane	mg/kg	---	---	---		<0.0058
Tetrachloroethene	mg/kg	---	---	0.06		<0.0058
trans-1,2-Dichloroethene	mg/kg	---	---	0.7		<0.0058
Trichloroethene	mg/kg	---	---	0.06		<0.0058
1,1,1-Trichloroethane	mg/kg	---	---	2		<0.0058
1,1,2-Trichloroethane	mg/kg	---	---	0.02		<0.0058
Vinyl Chloride	mg/kg	---	---	0.01		<0.0058
<b>Semivolatile Organic Analytical Parameters</b>						
Acenaphthene	mg/kg	0.09	0.13	570		0.016
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040
Anthracene	mg/kg	0.25	0.4	12000		0.05
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.16
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.16
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.23
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.051
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.09
Chrysene	mg/kg	1.2	2.7	88		0.17
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.014
Fluoranthene	mg/kg	2.7	4.1	3100		0.41
Fluorene	mg/kg	0.1	0.18	560		0.02
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.06
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040
Phenanthrene	mg/kg	1.3	2.5	210		0.2
Pyrene	mg/kg	1.9	3.0	2300		0.35
bis(2-Chloroethoxy) methane	mg/kg	---	---	---		<0.20
bis(2-Chloroethyl) ether	mg/kg	---	---	0.66		<0.20

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B04 (6-13)
				CCDD	Sample Depth (feet)	(6-13)
		mg/kg	Date Collected	09/04/2015		
		Chicago			MSAs	pH 6.25-9.0
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.20
4-Bromophenyl-phenyl ether	mg/kg	---	---	---		<0.20
Butylbenzylphthalate	mg/kg	---	---	930		<0.20
Carbazole	mg/kg	---	---	0.6		<0.20
4-Chloroaniline	mg/kg	---	---	0.7		<0.82
2-Chloronaphthalene	mg/kg	---	---	---		<0.20
4-Chloro-3-methylphenol	mg/kg	---	---	---		<0.40
2-Chlorophenol	mg/kg	---	---	1.5		<0.20
4-Chlorophenyl-phenyl ether	mg/kg	---	---	---		<0.20
Dibenzofuran	mg/kg	---	---	---		<0.20
1,2-Dichlorobenzene	mg/kg	---	---	17		<0.20
1,3-Dichlorobenzene	mg/kg	---	---	---		<0.20
1,4-Dichlorobenzene	mg/kg	---	---	2		<0.20
3,3'-Dichlorobenzidine	mg/kg	---	---	1.3		<0.20
2,4-Dichlorophenol	mg/kg	---	---	0.48		<0.40
Diethylphthalate	mg/kg	---	---	470		<0.20
Dimethylphthalate	mg/kg	---	---	---		<0.20
Di-n-butylphthalate	mg/kg	---	---	2300		<0.20
2,4-Dimethylphenol	mg/kg	---	---	9		<0.40
4,6-Dinitro-2-methylphenol	mg/kg	---	---	---		<0.82
2,4-Dinitrophenol	mg/kg	---	---	3.3		<0.82
2,4-Dinitrotoluene	mg/kg	---	---	0.25		<0.20
2,6-dinitrotoluene	mg/kg	---	---	0.26		<0.20
Di-n-octylphthalate	mg/kg	---	---	1600		<0.20
Hexachlorobenzene	mg/kg	---	---	0.4		<0.082
Hexachlorobutadiene	mg/kg	---	---	---		<0.20
Hexachlorocyclopentadiene	mg/kg	---	---	1.1		<0.82
Hexachloroethane	mg/kg	---	---	0.5		<0.20
Isophorone	mg/kg	---	---	8		<0.20
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.040
2-Methylphenol	mg/kg	---	---	15		<0.20
3 & 4-Methylphenol **	mg/kg	---	---	---		<0.20
2-Nitroaniline	mg/kg	---	---	---		<0.20
3-Nitroaniline	mg/kg	---	---	---		<0.40
4-Nitroaniline	mg/kg	---	---	---		<0.40
Nitrobenzene	mg/kg	---	---	0.26		<0.040
2-Nitrophenol	mg/kg	---	---	---		<0.40
4-Nitrophenol	mg/kg	---	---	---		<0.82
N-Nitroso-di-n-propylamine	mg/kg	---	---	0.0018		<0.20
N-nitrosodiphenylamine	mg/kg	---	---	1		<0.20
2,2'-oxybis (1-chloropropane)	mg/kg	---	---	---		<0.20
Pentachlorophenol	mg/kg	---	---	0.02		<0.82
Phenol	mg/kg	---	---	100		<0.20
1,2,4-Trichlorobenzene	mg/kg	---	---	5		<0.20
2,4,5-Trichlorophenol	mg/kg	---	---	26		<0.40
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.40
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		6.5
Barium	mg/kg	---	110	1500		82
Cadmium	mg/kg	---	0.6	5.2		0.1
Chromium, total	mg/kg	---	16.2	21		15
Lead	mg/kg	---	36	107		32
Mercury	mg/kg	---	0.06	0.1		0.041
Selenium	mg/kg	---	0.48	1.3		0.55
Silver	mg/kg	---	0.55	4.4		<0.31
Antimony	mg/kg	---	4.0	5		<1.3
Beryllium	mg/kg	---	0.59	22		0.61
Calcium	mg/kg	---	9,300	---		22000
Cobalt	mg/kg	---	8.9	20		7.5
Copper	mg/kg	---	19.6	2900		19

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2618-9-B04 (6-13)
				CCDD	Sample Depth (feet)	(6-13)
		Chicago	MSAs	mg/kg	Date Collected	09/04/2015
				pH 6.25-9.0		
Cyanide	mg/kg	---	0.51	---		<0.59
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		13000
Manganese	mg/kg	---	636	630		300
Nickel	mg/kg	---	18	100		17
Potassium	mg/kg	---	1,268	---		1600
Sodium	mg/kg	---	130	---		1300
Thallium	mg/kg	---	0.32	2.6		1.3
Vanadium	mg/kg	---	25.2	550		21
Zinc	mg/kg	---	95	5100		59
pH			6.25	9		7.71
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050
Barium,SPLP	mg/L	---	---	---		0.32
Beryllium,SPLP	mg/L	---	---	---		<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050
Calcium,SPLP	mg/L	---	---	---		24
Chromium,SPLP	mg/L	---	---	---		0.019
Cobalt,SPLP	mg/L	---	---	---		<0.025
Copper,SPLP	mg/L	---	---	---		0.029
Iron,SPLP	mg/L	---	---	---		17
Lead,SPLP	mg/L	---	---	---		0.04
Magnesium,SPLP	mg/L	---	---	---		8.7
Manganese,SPLP	mg/L	---	---	---		0.25
Mercury,SPLP	mg/L	---	---	---		<0.00020
Nickel,SPLP	mg/L	---	---	---		0.015
Potassium,SPLP	mg/L	---	---	---		5.8
Selenium,SPLP	mg/L	---	---	---		<0.050
Silver,SPLP	mg/L	---	---	---		<0.025
Sodium,SPLP	mg/L	---	---	---		----
Thallium,SPLP	mg/L	---	---	---		<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.033
Zinc,SPLP	mg/L	---	---	---		0.19
Cyanide,SPLP	mg/L	---	---	---		----
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.6
Cadmium,TCLP	mg/L	---	---	---		<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050
Silver,TCLP	mg/L	---	---	---		<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		240
Cobalt,TCLP	mg/L	---	---	---		0.021
Copper,TCLP	mg/L	---	---	---		<0.025
Cyanide,TCLP	mg/L	---	---	---		----
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		79
Manganese,TCLP	mg/L	---	---	---		6.3
Nickel,TCLP	mg/L	---	---	---		0.014
Potassium,TCLP	mg/L	---	---	---		4.7
Sodium,TCLP	mg/L	---	---	---		----
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.15



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100839-2  
Client Project/Site: IDOT - Hoffman Estates - WO 08

For:  
Terracon Consulting Eng & Scientists  
135 Ambassador Drive  
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/16/2015 5:15:58 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Job ID: 500-100839-2**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100839-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 2.3° C, 2.5° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.3° C, 3.6° C and 4.0° C.

#### Receipt Exceptions

Bottles for samples 5-11 have ID of 2618, COC has 2168, logged per bottles. COC has pH for water sample 11, however the lab did not receive an unpreserved bottle, and pH was not logged in. Received sample 12 not on COC, added to COC and logged in. Only received 6 bottles received for sample 11, COC has 7.

#### GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) for the following sample contained one base surrogate outside acceptance limits: 2618-9-B01 (0-6) (500-100839-7). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits. These results have been reported and qualified.

Method(s) 3510C: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 303486 had 3 analytes outside control limits: 3,3'-Dichlorobenzidine, 2,4-Dinitromethylphenol, and 2,4-Dinitrophenol; therefore, corrective action was not performed. These results have been reported and qualified. 2618-9-B02 (500-100839-11)

The LCD associated with this batch had 4 analytes outside control limits: 2,4-Dichlorophenol, Dimethyl Phthalate, 4,6-Dinitro-2-methylphenol, and 2,4-Dinitrophenol. Because the LCS was within control limits, these results have been reported and qualified.

Method(s) 3541: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 303593 had 1 analyte outside control limits: 2,4-Dinitrophenol; therefore, corrective action was not performed. These results have been reported and qualified. 2618-9-B01 (0-6) (500-100839-7), 2618-9-B01 (6-13) (500-100839-8), 2618-9-B02 (0-6) (500-100839-9), 2618-9-B02 (6-13) (500-100839-10), 2618-9-B01 DUP (6-13) (500-100839-12), (500-100839-F-7 MS) and (500-100839-F-7 MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The following samples was diluted due to the abundance of non-target analytes: 2618-9-B01 (6-13) (500-100839-8), 2618-9-B02 (0-6) (500-100839-9), 2618-9-B02 (6-13) (500-100839-10), 2618-9-B01 DUP (6-13) (500-100839-12) and (500-100839-A-1-F ^5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (0-6)**

**Lab Sample ID: 500-100839-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.015	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.054		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.050		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.089		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J F1	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.061		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12	F1	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.23	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.70		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	25	B	0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	41000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	84000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	700		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.093	J	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.7		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.39	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.014	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	41		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.023		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	9.2		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

## Client Sample ID: 2618-9-B01 (0-6) (Continued)

## Lab Sample ID: 500-100839-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.74		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.038	B	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.25		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-9-B01 (6-13)

## Lab Sample ID: 500-100839-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022		0.022	0.0042	mg/Kg	1	☼	8260B	Total/NA
Arsenic	0.96		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.0		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	7.8	B	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	8900		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	7.8		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	2700	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	120		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.5		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.77		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	680		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	520		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.21		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	74		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.046	J B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	1.3		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0082		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0061		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	47		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.15		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

## Client Sample ID: 2618-9-B01 (6-13) (Continued)

## Lab Sample ID: 500-100839-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.83		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0020		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019	B	0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-9-B02 (0-6)

## Lab Sample ID: 500-100839-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.029		0.022	0.0043	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.013	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.024	J	0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.94		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.48		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.7		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	12	B	0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4900		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	4200	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	200		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.88		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	67		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.20		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	27		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.084	J B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.50		0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	62		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

## Client Sample ID: 2618-9-B02 (0-6) (Continued)

## Lab Sample ID: 500-100839-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	8.5		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.37		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.040	B	0.020	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	8.04		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-9-B02 (6-13)

## Lab Sample ID: 500-100839-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.033		0.021	0.0041	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0095	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.028	J	0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.88		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.63		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	29000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7300		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	9700	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.70		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	190		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.059	J B	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

## Client Sample ID: 2618-9-B02 (6-13) (Continued)

## Lab Sample ID: 500-100839-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.066		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	63		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.046		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.060		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	9.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.25		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.040	B	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.88		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-9-B02

## Lab Sample ID: 500-100839-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dimethyl phthalate	0.00058	J*	0.0016	0.00026	mg/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.00062	J	0.0041	0.00060	mg/L	1		8270D	Total/NA
Arsenic	0.021		0.010	0.0044	mg/L	10		6020A	Total Recoverable
Barium	5.3		0.025	0.0084	mg/L	10		6020A	Total Recoverable
Cadmium	0.0021	J	0.0050	0.0019	mg/L	10		6020A	Total Recoverable
Calcium	3900		2.0	1.1	mg/L	10		6020A	Total Recoverable
Cobalt	0.051		0.010	0.0019	mg/L	10		6020A	Total Recoverable
Iron	390		1.0	0.26	mg/L	10		6020A	Total Recoverable
Lead	0.015		0.0050	0.0014	mg/L	10		6020A	Total Recoverable
Magnesium	1700		2.0	0.83	mg/L	10		6020A	Total Recoverable
Manganese	25		0.025	0.0099	mg/L	10		6020A	Total Recoverable
Nickel	0.11		0.020	0.0053	mg/L	10		6020A	Total Recoverable
Potassium	16		5.0	1.9	mg/L	10		6020A	Total Recoverable
Sodium	220		2.0	0.88	mg/L	10		6020A	Total Recoverable
Zinc	0.90		0.20	0.046	mg/L	10		6020A	Total Recoverable
Cyanide, Total	0.0051	J	0.010	0.0021	mg/L	1		9014	Total/NA

## Client Sample ID: 2618-9-B01 DUP (6-13)

## Lab Sample ID: 500-100839-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.023	0.0045	mg/Kg	1	☼	8260B	Total/NA
Pyrene	0.011	J	0.043	0.0086	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.6		0.64	0.30	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 DUP (6-13) (Continued)**

**Lab Sample ID: 500-100839-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	99		0.64	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.26	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.55		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.64	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.32	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.64	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		6.4	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	13	4.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.64	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.64	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.96		0.64	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.32	0.093	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.3	0.41	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		32	5.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	850		64	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.37		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.3	B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.017	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	73		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.068		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.87		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.053	B	0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100839-7	2618-9-B01 (0-6)	Solid	09/03/15 13:30	09/04/15 09:30
500-100839-8	2618-9-B01 (6-13)	Solid	09/03/15 13:40	09/04/15 09:30
500-100839-9	2618-9-B02 (0-6)	Solid	09/03/15 13:00	09/04/15 09:30
500-100839-10	2618-9-B02 (6-13)	Solid	09/03/15 13:05	09/04/15 09:30
500-100839-11	2618-9-B02	Water	09/03/15 13:15	09/04/15 09:30
500-100839-12	2618-9-B01 DUP (6-13)	Solid	09/03/15 13:40	09/04/15 09:30



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (0-6)**

**Lab Sample ID: 500-100839-7**

**Date Collected: 09/03/15 13:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 07:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 14:10	09/09/15 07:41	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 07:41	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 14:10	09/09/15 07:41	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 14:10	09/09/15 07:41	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
<b>Anthracene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0064	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
<b>Benzo[a]anthracene</b>	<b>0.054</b>		0.038	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (0-6)**

**Lab Sample ID: 500-100839-7**

**Date Collected: 09/03/15 13:30**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 86.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.050		0.038	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Benzo[b]fluoranthene	0.089		0.038	0.0083	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Benzo[g,h,i]perylene	0.017	J F1	0.038	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Benzo[k]fluoranthene	0.033	J	0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.070	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.073	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Chrysene	0.061		0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
4,6-Dinitro-2-methylphenol	<0.78	F2	0.78	0.31	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,4-Dinitrophenol	<0.78	F1 *	0.78	0.68	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Fluoranthene	0.12		0.038	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Hexachlorocyclopentadiene	<0.78	F1	0.78	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.038	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (0-6)**

**Lab Sample ID: 500-100839-7**

Date Collected: 09/03/15 13:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
<b>Phenanthrene</b>	<b>0.037</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
<b>Pyrene</b>	<b>0.12</b>	<b>F1</b>	0.038	0.0077	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/09/15 16:30	09/14/15 16:24	1
2-Fluorophenol	82		25 - 110	09/09/15 16:30	09/14/15 16:24	1
Nitrobenzene-d5	71		25 - 115	09/09/15 16:30	09/14/15 16:24	1
Phenol-d5	80		31 - 110	09/09/15 16:30	09/14/15 16:24	1
Terphenyl-d14	107		36 - 134	09/09/15 16:30	09/14/15 16:24	1
2,4,6-Tribromophenol	85		35 - 137	09/09/15 16:30	09/14/15 16:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.23</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Arsenic</b>	<b>9.5</b>		0.56	0.26	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Barium</b>	<b>59</b>		0.56	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Beryllium</b>	<b>0.68</b>		0.22	0.049	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Cadmium</b>	<b>0.70</b>		0.11	0.032	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Chromium</b>	<b>18</b>		0.56	0.097	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Cobalt</b>	<b>15</b>		0.28	0.063	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Copper</b>	<b>25</b>	<b>B</b>	0.56	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Iron</b>	<b>22000</b>		11	4.3	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Lead</b>	<b>13</b>		0.28	0.14	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Magnesium</b>	<b>41000</b>		5.6	2.3	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Calcium</b>	<b>84000</b>	<b>B</b>	110	36	mg/Kg	☼	09/09/15 12:00	09/10/15 13:23	10
<b>Manganese</b>	<b>700</b>		0.56	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Nickel</b>	<b>29</b>		0.56	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Silver</b>	<b>0.093</b>	<b>J</b>	0.28	0.066	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Thallium</b>	<b>1.7</b>		0.56	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Vanadium</b>	<b>22</b>		0.28	0.082	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Zinc</b>	<b>56</b>		1.1	0.36	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Potassium</b>	<b>3100</b>		28	4.6	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1
<b>Sodium</b>	<b>190</b>		56	7.4	mg/Kg	☼	09/09/15 12:00	09/09/15 20:05	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 04:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 04:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 04:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (0-6)**

**Lab Sample ID: 500-100839-7**

Date Collected: 09/03/15 13:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
Iron	<0.20		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 04:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 04:57	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:57	1
<b>Manganese</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 04:57	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 04:57	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 04:57	1
<b>Zinc</b>	<b>0.39</b>	<b>B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 04:57	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Calcium</b>	<b>20</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Chromium</b>	<b>0.040</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Copper</b>	<b>0.052</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Iron</b>	<b>41</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Lead</b>	<b>0.023</b>		0.0075	0.0075	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Potassium</b>	<b>9.2</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:46	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:38	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Vanadium</b>	<b>0.068</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:38	1
<b>Zinc</b>	<b>0.74</b>		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:38	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:45	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:58	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (0-6)**

**Lab Sample ID: 500-100839-7**

Date Collected: 09/03/15 13:30

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 86.1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.017	0.0058	mg/Kg	☼	09/10/15 15:00	09/11/15 13:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:18	1
pH	8.25		0.200	0.200	SU			09/10/15 20:43	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (6-13)**

**Lab Sample ID: 500-100839-8**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.022</b>		0.022	0.0042	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
2-Butanone (MEK)	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/09/15 08:07	1
Dibromofluoromethane	104		75 - 120	09/04/15 14:10	09/09/15 08:07	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	09/04/15 14:10	09/09/15 08:07	1
Toluene-d8 (Surr)	112		75 - 122	09/04/15 14:10	09/09/15 08:07	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (6-13)**

**Lab Sample ID: 500-100839-8**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,4-Dinitrophenol	<0.76 *		0.76	0.67	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (6-13)**

**Lab Sample ID: 500-100839-8**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 09:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	09/09/15 16:30	09/14/15 09:50	1
2-Fluorophenol	66		25 - 110	09/09/15 16:30	09/14/15 09:50	1
Nitrobenzene-d5	55		25 - 115	09/09/15 16:30	09/14/15 09:50	1
Phenol-d5	66		31 - 110	09/09/15 16:30	09/14/15 09:50	1
Terphenyl-d14	69		36 - 134	09/09/15 16:30	09/14/15 09:50	1
2,4,6-Tribromophenol	67		35 - 137	09/09/15 16:30	09/14/15 09:50	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Arsenic</b>	<b>0.96</b>		0.58	0.27	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Barium</b>	<b>53</b>		0.58	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Beryllium</b>	<b>0.48</b>		0.23	0.050	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Cadmium</b>	<b>0.20</b>		0.12	0.033	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Chromium</b>	<b>12</b>		0.58	0.099	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Cobalt</b>	<b>3.0</b>		0.29	0.065	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Copper</b>	<b>7.8 B</b>		0.58	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Iron</b>	<b>8900</b>		12	4.4	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Lead</b>	<b>7.8</b>		0.29	0.14	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Magnesium</b>	<b>2100</b>		5.8	2.3	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Calcium</b>	<b>2700 B</b>		12	3.7	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Manganese</b>	<b>120</b>		0.58	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Nickel</b>	<b>6.5</b>		0.58	0.16	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Selenium</b>	<b>0.39 J</b>		0.58	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Thallium</b>	<b>0.77</b>		0.58	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Vanadium</b>	<b>16</b>		0.29	0.084	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Zinc</b>	<b>36</b>		1.2	0.36	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Potassium</b>	<b>680</b>		29	4.7	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1
<b>Sodium</b>	<b>520</b>		58	7.6	mg/Kg	☼	09/09/15 12:00	09/09/15 20:12	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
<b>Barium</b>	<b>0.42 J</b>		0.50	0.050	mg/L		09/09/15 10:30	09/10/15 05:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 05:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 05:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (6-13)**

**Lab Sample ID: 500-100839-8**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
Cobalt	0.016	J	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
Iron	0.21		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 05:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 05:04	1
Magnesium	74		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:04	1
Manganese	5.2		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
Nickel	0.014	J	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
Potassium	3.3		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 05:04	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:04	1
Zinc	0.046	J B	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 05:04	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Barium	1.3		0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:42	1
Beryllium	0.0082		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:42	1
Cadmium	0.0061		0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:42	1
Calcium	47		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:42	1
Chromium	0.20		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Cobalt	0.044		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Copper	0.18		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Iron	160		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:42	1
Lead	0.15		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 19:17	5
Magnesium	37		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:42	1
Manganese	0.72		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Nickel	0.14		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Potassium	13		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:42	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Vanadium	0.29		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:42	1
Zinc	0.83		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:42	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:46	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 12:59	1
Thallium	0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 12:59	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 (6-13)**

**Lab Sample ID: 500-100839-8**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 83.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	B	0.019	0.0068	mg/Kg	☼	09/10/15 15:00	09/11/15 13:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	09/10/15 16:15	09/10/15 18:18	1
pH	8.21		0.200	0.200	SU			09/10/15 20:47	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (0-6)**

**Lab Sample ID: 500-100839-9**

Date Collected: 09/03/15 13:00

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 78.7

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.029</b>		0.022	0.0043	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Benzene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Bromodichloromethane	<0.0056		0.0056	0.00094	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Bromoform	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Bromomethane	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Carbon disulfide	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Carbon tetrachloride	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Chlorobenzene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Chloroethane	<0.0056		0.0056	0.0023	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Chloroform	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Chloromethane	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Dibromochloromethane	<0.0056		0.0056	0.00064	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,1-Dichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,1-Dichloroethene	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,2-Dichloropropane	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,3-Dichloropropane, Total	<0.0056		0.0056	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Ethylbenzene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Methylene Chloride	<0.0056		0.0056	0.0042	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Methyl tert-butyl ether	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Styrene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00088	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Tetrachloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Toluene	<0.0056		0.0056	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Trichloroethene	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Vinyl acetate	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Vinyl chloride	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 08:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/04/15 14:10	09/09/15 08:31	1
Dibromofluoromethane	100		75 - 120	09/04/15 14:10	09/09/15 08:31	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	09/04/15 14:10	09/09/15 08:31	1
Toluene-d8 (Surr)	111		75 - 122	09/04/15 14:10	09/09/15 08:31	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
<b>Benzo[a]anthracene</b>	<b>0.013</b>	<b>J</b>	0.041	0.0056	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (0-6)**

**Lab Sample ID: 500-100839-9**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
<b>Benzo[b]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.041	0.0090	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,4-Dinitrophenol	<0.84	*	0.84	0.73	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
<b>Fluoranthene</b>	<b>0.032</b>	<b>J</b>	0.041	0.0077	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (0-6)**

**Lab Sample ID: 500-100839-9**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
<b>Phenanthrene</b>	<b>0.020</b>	<b>J</b>	0.041	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
<b>Pyrene</b>	<b>0.024</b>	<b>J</b>	0.041	0.0083	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 10:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	09/09/15 16:30	09/14/15 10:17	1
2-Fluorophenol	72		25 - 110	09/09/15 16:30	09/14/15 10:17	1
Nitrobenzene-d5	58		25 - 115	09/09/15 16:30	09/14/15 10:17	1
Phenol-d5	72		31 - 110	09/09/15 16:30	09/14/15 10:17	1
Terphenyl-d14	82		36 - 134	09/09/15 16:30	09/14/15 10:17	1
2,4,6-Tribromophenol	72		35 - 137	09/09/15 16:30	09/14/15 10:17	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.34</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Arsenic</b>	<b>4.2</b>		0.59	0.27	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Barium</b>	<b>120</b>		0.59	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Beryllium</b>	<b>0.94</b>		0.23	0.051	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Cadmium</b>	<b>0.48</b>		0.12	0.034	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Chromium</b>	<b>24</b>		0.59	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Cobalt</b>	<b>8.7</b>		0.29	0.066	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Copper</b>	<b>12</b>	<b>B</b>	0.59	0.13	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Iron</b>	<b>25000</b>		12	4.5	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Lead</b>	<b>14</b>		0.29	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Magnesium</b>	<b>4900</b>		5.9	2.4	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Calcium</b>	<b>4200</b>	<b>B</b>	12	3.8	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Manganese</b>	<b>200</b>		0.59	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Nickel</b>	<b>17</b>		0.59	0.16	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Thallium</b>	<b>0.88</b>		0.59	0.29	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Vanadium</b>	<b>33</b>		0.29	0.086	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Zinc</b>	<b>53</b>		1.2	0.37	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Potassium</b>	<b>1500</b>		29	4.8	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1
<b>Sodium</b>	<b>1000</b>		59	7.7	mg/Kg	☼	09/09/15 12:00	09/09/15 20:19	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 05:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 05:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 05:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (0-6)**

**Lab Sample ID: 500-100839-9**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>67</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:11	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 05:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 05:11	1
<b>Magnesium</b>	<b>27</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:11	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
<b>Potassium</b>	<b>3.0</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 05:11	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:11	1
<b>Zinc</b>	<b>0.084</b>	<b>J B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 05:11	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Calcium</b>	<b>18</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Chromium</b>	<b>0.063</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Copper</b>	<b>0.040</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Iron</b>	<b>62</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:47	1
Lead	<0.038		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 19:21	5
<b>Magnesium</b>	<b>16</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Nickel</b>	<b>0.041</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Potassium</b>	<b>8.5</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 21:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:47	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Vanadium</b>	<b>0.099</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:47	1
<b>Zinc</b>	<b>0.37</b>		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:47	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:47	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 13:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 13:00	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:37	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (0-6)**

**Lab Sample ID: 500-100839-9**

**Date Collected: 09/03/15 13:00**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 78.7**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:41	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	B	0.020	0.0071	mg/Kg	☼	09/10/15 15:00	09/11/15 13:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	09/10/15 16:15	09/10/15 18:19	1
pH	8.04		0.200	0.200	SU			09/10/15 20:52	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (6-13)**

**Lab Sample ID: 500-100839-10**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.033</b>		0.021	0.0041	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Bromodichloromethane	<0.0053		0.0053	0.00089	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Bromomethane	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Carbon disulfide	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Chlorobenzene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Dibromochloromethane	<0.0053		0.0053	0.00060	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,3-Dichloropropane, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1
Xylenes, Total	<0.011		0.011	0.0019	mg/Kg	☼	09/04/15 14:10	09/09/15 08:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/04/15 14:10	09/09/15 08:57	1
Dibromofluoromethane	103		75 - 120	09/04/15 14:10	09/09/15 08:57	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/04/15 14:10	09/09/15 08:57	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 14:10	09/09/15 08:57	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (6-13)**

**Lab Sample ID: 500-100839-10**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0095</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
<b>Benzo[b]fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0086	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
<b>Fluoranthene</b>	<b>0.028</b>	<b>J</b>	0.039	0.0074	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (6-13)**

**Lab Sample ID: 500-100839-10**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
<b>Phenanthrene</b>	<b>0.022</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0079	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/09/15 16:30	09/14/15 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	09/09/15 16:30	09/14/15 10:43	1
2-Fluorophenol	65		25 - 110	09/09/15 16:30	09/14/15 10:43	1
Nitrobenzene-d5	55		25 - 115	09/09/15 16:30	09/14/15 10:43	1
Phenol-d5	65		31 - 110	09/09/15 16:30	09/14/15 10:43	1
Terphenyl-d14	68		36 - 134	09/09/15 16:30	09/14/15 10:43	1
2,4,6-Tribromophenol	67		35 - 137	09/09/15 16:30	09/14/15 10:43	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Arsenic</b>	<b>8.7</b>		0.60	0.28	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Barium</b>	<b>120</b>		0.60	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Beryllium</b>	<b>0.88</b>		0.24	0.052	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Cadmium</b>	<b>0.63</b>		0.12	0.035	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Chromium</b>	<b>20</b>		0.60	0.10	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Cobalt</b>	<b>11</b>		0.30	0.068	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Copper</b>	<b>16</b>	<b>B</b>	0.60	0.13	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Iron</b>	<b>29000</b>		12	4.6	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Lead</b>	<b>14</b>		0.30	0.15	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Magnesium</b>	<b>7300</b>		6.0	2.4	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Calcium</b>	<b>9700</b>	<b>B</b>	12	3.9	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Manganese</b>	<b>440</b>		0.60	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Nickel</b>	<b>18</b>		0.60	0.16	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Selenium</b>	<b>0.70</b>		0.60	0.30	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Thallium</b>	<b>1.2</b>		0.60	0.30	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Vanadium</b>	<b>35</b>		0.30	0.088	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Zinc</b>	<b>49</b>		1.2	0.38	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Potassium</b>	<b>1700</b>		30	4.9	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1
<b>Sodium</b>	<b>1300</b>		60	7.9	mg/Kg	☼	09/09/15 12:00	09/09/15 20:25	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 05:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 05:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 05:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (6-13)**

**Lab Sample ID: 500-100839-10**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
Cobalt	0.015	J	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
Copper	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
Iron	0.24		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 05:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 05:18	1
Magnesium	85		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:18	1
Manganese	7.4		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
Nickel	0.011	J	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
Potassium	4.5		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 05:18	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:18	1
Zinc	0.059	J B	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 05:18	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Barium	0.41	J	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:51	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:51	1
Calcium	16		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:51	1
Chromium	0.066		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Cobalt	0.019	J	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Copper	0.073		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Iron	63		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:51	1
Lead	0.046		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 19:25	5
Magnesium	15		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:51	1
Manganese	0.87		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Nickel	0.060		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Potassium	9.9		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 22:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:51	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Vanadium	0.11		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:51	1
Zinc	0.25		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:51	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:48	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 13:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 13:00	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02 (6-13)**

**Lab Sample ID: 500-100839-10**

**Date Collected: 09/03/15 13:05**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 79.4**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	B	0.019	0.0066	mg/Kg	☼	09/10/15 15:00	09/11/15 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/10/15 16:15	09/10/15 18:19	1
pH	7.88		0.200	0.200	SU			09/10/15 20:56	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02**

**Lab Sample ID: 500-100839-11**

**Date Collected: 09/03/15 13:15**

**Matrix: Water**

**Date Received: 09/04/15 09:30**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0013	mg/L			09/10/15 16:21	1
Benzene	<0.00050		0.00050	0.000074	mg/L			09/10/15 16:21	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			09/10/15 16:21	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			09/10/15 16:21	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			09/10/15 16:21	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			09/10/15 16:21	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			09/10/15 16:21	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			09/10/15 16:21	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			09/10/15 16:21	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			09/10/15 16:21	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			09/10/15 16:21	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			09/10/15 16:21	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			09/10/15 16:21	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			09/10/15 16:21	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			09/10/15 16:21	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			09/10/15 16:21	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			09/10/15 16:21	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			09/10/15 16:21	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			09/10/15 16:21	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			09/10/15 16:21	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			09/10/15 16:21	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			09/10/15 16:21	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			09/10/15 16:21	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			09/10/15 16:21	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			09/10/15 16:21	1
Styrene	<0.0010		0.0010	0.00010	mg/L			09/10/15 16:21	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			09/10/15 16:21	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			09/10/15 16:21	1
Toluene	<0.00050		0.00050	0.00011	mg/L			09/10/15 16:21	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			09/10/15 16:21	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			09/10/15 16:21	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			09/10/15 16:21	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			09/10/15 16:21	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			09/10/15 16:21	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			09/10/15 16:21	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			09/10/15 16:21	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			09/10/15 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120		09/10/15 16:21	1
Dibromofluoromethane	108		75 - 120		09/10/15 16:21	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		09/10/15 16:21	1
Toluene-d8 (Surr)	107		75 - 120		09/10/15 16:21	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00082		0.00082	0.00025	mg/L		09/09/15 08:13	09/10/15 11:57	1
Acenaphthylene	<0.00082		0.00082	0.00022	mg/L		09/09/15 08:13	09/10/15 11:57	1
Anthracene	<0.00082		0.00082	0.00027	mg/L		09/09/15 08:13	09/10/15 11:57	1
Benzo[a]anthracene	<0.00013		0.00013	0.000047	mg/L		09/09/15 08:13	09/10/15 11:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02**

**Lab Sample ID: 500-100839-11**

**Date Collected: 09/03/15 13:15**

**Matrix: Water**

**Date Received: 09/04/15 09:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.00016		0.00016	0.000081	mg/L		09/09/15 08:13	09/10/15 11:57	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000066	mg/L		09/09/15 08:13	09/10/15 11:57	1
Benzo[g,h,i]perylene	<0.00082		0.00082	0.00031	mg/L		09/09/15 08:13	09/10/15 11:57	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000053	mg/L		09/09/15 08:13	09/10/15 11:57	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		09/09/15 08:13	09/10/15 11:57	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00024	mg/L		09/09/15 08:13	09/10/15 11:57	1
Bis(2-ethylhexyl) phthalate	<0.0082		0.0082	0.0014	mg/L		09/09/15 08:13	09/10/15 11:57	1
4-Bromophenyl phenyl ether	<0.0041		0.0041	0.00044	mg/L		09/09/15 08:13	09/10/15 11:57	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00040	mg/L		09/09/15 08:13	09/10/15 11:57	1
Carbazole	<0.0041		0.0041	0.00029	mg/L		09/09/15 08:13	09/10/15 11:57	1
4-Chloroaniline	<0.0082		0.0082	0.0017	mg/L		09/09/15 08:13	09/10/15 11:57	1
4-Chloro-3-methylphenol	<0.0082		0.0082	0.0019	mg/L		09/09/15 08:13	09/10/15 11:57	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		09/09/15 08:13	09/10/15 11:57	1
2-Chlorophenol	<0.0041		0.0041	0.00046	mg/L		09/09/15 08:13	09/10/15 11:57	1
4-Chlorophenyl phenyl ether	<0.0041		0.0041	0.00052	mg/L		09/09/15 08:13	09/10/15 11:57	1
Chrysene	<0.00041		0.00041	0.000056	mg/L		09/09/15 08:13	09/10/15 11:57	1
Dibenz(a,h)anthracene	<0.00025		0.00025	0.000042	mg/L		09/09/15 08:13	09/10/15 11:57	1
Dibenzofuran	<0.0016		0.0016	0.00022	mg/L		09/09/15 08:13	09/10/15 11:57	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		09/09/15 08:13	09/10/15 11:57	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		09/09/15 08:13	09/10/15 11:57	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		09/09/15 08:13	09/10/15 11:57	1
3,3'-Dichlorobenzidine	<0.0041 *		0.0041	0.0014	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,4-Dichlorophenol	<0.0082 *		0.0082	0.0021	mg/L		09/09/15 08:13	09/10/15 11:57	1
Diethyl phthalate	<0.0016		0.0016	0.00030	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,4-Dimethylphenol	<0.0082		0.0082	0.0015	mg/L		09/09/15 08:13	09/10/15 11:57	1
<b>Dimethyl phthalate</b>	<b>0.00058</b>	<b>J *</b>	0.0016	0.00026	mg/L		09/09/15 08:13	09/10/15 11:57	1
<b>Di-n-butyl phthalate</b>	<b>0.00062</b>	<b>J</b>	0.0041	0.00060	mg/L		09/09/15 08:13	09/10/15 11:57	1
4,6-Dinitro-2-methylphenol	<0.016 *		0.016	0.0049	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,4-Dinitrophenol	<0.016 *		0.016	0.0071	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,4-Dinitrotoluene	<0.00082		0.00082	0.00020	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,6-Dinitrotoluene	<0.00041		0.00041	0.000061	mg/L		09/09/15 08:13	09/10/15 11:57	1
Di-n-octyl phthalate	<0.0082		0.0082	0.00086	mg/L		09/09/15 08:13	09/10/15 11:57	1
Fluoranthene	<0.00082		0.00082	0.00037	mg/L		09/09/15 08:13	09/10/15 11:57	1
Fluorene	<0.00082		0.00082	0.00020	mg/L		09/09/15 08:13	09/10/15 11:57	1
Hexachlorobenzene	<0.00041		0.00041	0.000065	mg/L		09/09/15 08:13	09/10/15 11:57	1
Hexachlorobutadiene	<0.0041		0.0041	0.00042	mg/L		09/09/15 08:13	09/10/15 11:57	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0052	mg/L		09/09/15 08:13	09/10/15 11:57	1
Hexachloroethane	<0.0041		0.0041	0.00049	mg/L		09/09/15 08:13	09/10/15 11:57	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000062	mg/L		09/09/15 08:13	09/10/15 11:57	1
Isophorone	<0.0016		0.0016	0.00031	mg/L		09/09/15 08:13	09/10/15 11:57	1
2-Methylnaphthalene	<0.00041		0.00041	0.000054	mg/L		09/09/15 08:13	09/10/15 11:57	1
2-Methylphenol	<0.0016		0.0016	0.00025	mg/L		09/09/15 08:13	09/10/15 11:57	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00037	mg/L		09/09/15 08:13	09/10/15 11:57	1
Naphthalene	<0.00082		0.00082	0.00025	mg/L		09/09/15 08:13	09/10/15 11:57	1
2-Nitroaniline	<0.0041		0.0041	0.0011	mg/L		09/09/15 08:13	09/10/15 11:57	1
3-Nitroaniline	<0.0082		0.0082	0.0015	mg/L		09/09/15 08:13	09/10/15 11:57	1
4-Nitroaniline	<0.0082		0.0082	0.0014	mg/L		09/09/15 08:13	09/10/15 11:57	1
Nitrobenzene	<0.00082		0.00082	0.00037	mg/L		09/09/15 08:13	09/10/15 11:57	1
2-Nitrophenol	<0.0082		0.0082	0.0021	mg/L		09/09/15 08:13	09/10/15 11:57	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02**

**Lab Sample ID: 500-100839-11**

**Date Collected: 09/03/15 13:15**

**Matrix: Water**

**Date Received: 09/04/15 09:30**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.016		0.016	0.0061	mg/L		09/09/15 08:13	09/10/15 11:57	1
N-Nitrosodi-n-propylamine	<0.00041		0.00041	0.00013	mg/L		09/09/15 08:13	09/10/15 11:57	1
N-Nitrosodiphenylamine	<0.00082		0.00082	0.00030	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00031	mg/L		09/09/15 08:13	09/10/15 11:57	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		09/09/15 08:13	09/10/15 11:57	1
Phenanthrene	<0.00082		0.00082	0.00025	mg/L		09/09/15 08:13	09/10/15 11:57	1
Phenol	<0.0041		0.0041	0.00055	mg/L		09/09/15 08:13	09/10/15 11:57	1
Pyrene	<0.00082		0.00082	0.00035	mg/L		09/09/15 08:13	09/10/15 11:57	1
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,4,5-Trichlorophenol	<0.0082		0.0082	0.0021	mg/L		09/09/15 08:13	09/10/15 11:57	1
2,4,6-Trichlorophenol	<0.0041		0.0041	0.00059	mg/L		09/09/15 08:13	09/10/15 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		41 - 132	09/09/15 08:13	09/10/15 11:57	1
2-Fluorophenol	67		32 - 110	09/09/15 08:13	09/10/15 11:57	1
Nitrobenzene-d5	92		47 - 134	09/09/15 08:13	09/10/15 11:57	1
Phenol-d5	55		25 - 100	09/09/15 08:13	09/10/15 11:57	1
Terphenyl-d14	89		59 - 150	09/09/15 08:13	09/10/15 11:57	1
2,4,6-Tribromophenol	110		53 - 150	09/09/15 08:13	09/10/15 11:57	1

## Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.030		0.030	0.010	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Arsenic</b>	<b>0.021</b>		0.010	0.0044	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Barium</b>	<b>5.3</b>		0.025	0.0084	mg/L		09/06/15 18:05	09/09/15 11:11	10
Beryllium	<0.010		0.010	0.0024	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0019	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Calcium</b>	<b>3900</b>		2.0	1.1	mg/L		09/06/15 18:05	09/11/15 12:15	10
Chromium	<0.050		0.050	0.0061	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Cobalt</b>	<b>0.051</b>		0.010	0.0019	mg/L		09/06/15 18:05	09/09/15 11:11	10
Copper	<0.020		0.020	0.0096	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Iron</b>	<b>390</b>		1.0	0.26	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Lead</b>	<b>0.015</b>		0.0050	0.0014	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Magnesium</b>	<b>1700</b>		2.0	0.83	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Manganese</b>	<b>25</b>		0.025	0.0099	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Nickel</b>	<b>0.11</b>		0.020	0.0053	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Potassium</b>	<b>16</b>		5.0	1.9	mg/L		09/06/15 18:05	09/09/15 11:11	10
Selenium	<0.025		0.025	0.0083	mg/L		09/06/15 18:05	09/09/15 11:11	10
Silver	<0.0050		0.0050	0.00080	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Sodium</b>	<b>220</b>		2.0	0.88	mg/L		09/06/15 18:05	09/09/15 11:11	10
Thallium	<0.020		0.020	0.0059	mg/L		09/06/15 18:05	09/09/15 11:11	10
Vanadium	<0.050		0.050	0.022	mg/L		09/06/15 18:05	09/09/15 11:11	10
<b>Zinc</b>	<b>0.90</b>		0.20	0.046	mg/L		09/06/15 18:05	09/15/15 10:20	10

## Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000061	mg/L		09/08/15 17:30	09/09/15 09:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B02**

**Lab Sample ID: 500-100839-11**

**Date Collected: 09/03/15 13:15**

**Matrix: Water**

**Date Received: 09/04/15 09:30**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0051	J	0.010	0.0021	mg/L		09/11/15 15:50	09/11/15 17:58	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 DUP (6-13)**

**Lab Sample ID: 500-100839-12**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.032</b>		0.023	0.0045	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Benzene	<0.0059		0.0059	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Bromodichloromethane	<0.0059		0.0059	0.00099	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Bromoform	<0.0059		0.0059	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Bromomethane	<0.0059		0.0059	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
2-Butanone (MEK)	<0.0059		0.0059	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Carbon disulfide	<0.0059		0.0059	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Carbon tetrachloride	<0.0059		0.0059	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Chlorobenzene	<0.0059		0.0059	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Chloroethane	<0.0059		0.0059	0.0025	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Chloroform	<0.0059		0.0059	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Chloromethane	<0.0059		0.0059	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.0013	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Dibromochloromethane	<0.0059		0.0059	0.00067	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,1-Dichloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,2-Dichloroethane	<0.0059		0.0059	0.00087	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,1-Dichloroethene	<0.0059		0.0059	0.0021	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,2-Dichloropropane	<0.0059		0.0059	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,3-Dichloropropane, Total	<0.0059		0.0059	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Ethylbenzene	<0.0059		0.0059	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
2-Hexanone	<0.0059		0.0059	0.0018	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Methylene Chloride	<0.0059		0.0059	0.0044	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Methyl tert-butyl ether	<0.0059		0.0059	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Styrene	<0.0059		0.0059	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,1,1,2-Tetrachloroethane	<0.0059		0.0059	0.00093	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Tetrachloroethene	<0.0059		0.0059	0.0012	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Toluene	<0.0059		0.0059	0.0020	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.0015	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0017	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.0011	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Trichloroethene	<0.0059		0.0059	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Vinyl acetate	<0.0059		0.0059	0.0016	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Vinyl chloride	<0.0059		0.0059	0.0014	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1
Xylenes, Total	<0.012		0.012	0.0022	mg/Kg	☼	09/04/15 14:10	09/09/15 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/04/15 14:10	09/09/15 09:22	1
Dibromofluoromethane	99		75 - 120	09/04/15 14:10	09/09/15 09:22	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 14:10	09/09/15 09:22	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 14:10	09/09/15 09:22	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.043		0.043	0.0078	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 DUP (6-13)**

**Lab Sample ID: 500-100839-12**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2-Chlorophenol	<0.22		0.22	0.074	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,4-Dinitrophenol	<0.87	*	0.87	0.76	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,4-Dinitrotoluene	<0.22		0.22	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Fluoranthene	<0.043		0.043	0.0080	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Hexachloroethane	<0.22		0.22	0.066	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2-Methylnaphthalene	<0.043		0.043	0.0079	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 DUP (6-13)**

**Lab Sample ID: 500-100839-12**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.053	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
Phenol	<0.22		0.22	0.096	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
<b>Pyrene</b>	<b>0.011</b>	<b>J</b>	0.043	0.0086	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	09/09/15 16:30	09/14/15 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	09/09/15 16:30	09/14/15 18:35	1
2-Fluorophenol	64		25 - 110	09/09/15 16:30	09/14/15 18:35	1
Nitrobenzene-d5	54		25 - 115	09/09/15 16:30	09/14/15 18:35	1
Phenol-d5	62		31 - 110	09/09/15 16:30	09/14/15 18:35	1
Terphenyl-d14	126		36 - 134	09/09/15 16:30	09/14/15 18:35	1
2,4,6-Tribromophenol	69		35 - 137	09/09/15 16:30	09/14/15 18:35	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.27	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Arsenic</b>	<b>4.6</b>		0.64	0.30	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Barium</b>	<b>99</b>		0.64	0.12	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Beryllium</b>	<b>0.77</b>		0.26	0.055	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Cadmium</b>	<b>0.55</b>		0.13	0.037	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Chromium</b>	<b>18</b>		0.64	0.11	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Cobalt</b>	<b>7.2</b>		0.32	0.072	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Copper</b>	<b>16</b>	<b>B</b>	0.64	0.14	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Iron</b>	<b>20000</b>		13	4.9	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Lead</b>	<b>19</b>		0.32	0.16	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Magnesium</b>	<b>11000</b>		6.4	2.6	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	13	4.1	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Manganese</b>	<b>210</b>		0.64	0.13	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Nickel</b>	<b>14</b>		0.64	0.17	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Selenium</b>	<b>0.43</b>	<b>J</b>	0.64	0.32	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Thallium</b>	<b>0.96</b>		0.64	0.31	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Vanadium</b>	<b>28</b>		0.32	0.093	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Zinc</b>	<b>55</b>		1.3	0.41	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Potassium</b>	<b>1200</b>		32	5.2	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1
<b>Sodium</b>	<b>850</b>		64	8.5	mg/Kg	☼	09/09/15 12:00	09/09/15 20:32	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 10:30	09/10/15 05:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 10:30	09/10/15 05:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/15 10:30	09/10/15 05:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 DUP (6-13)**

**Lab Sample ID: 500-100839-12**

**Date Collected: 09/03/15 13:40**

**Matrix: Solid**

**Date Received: 09/04/15 09:30**

**Percent Solids: 76.0**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:40	1
Chromium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
Cobalt	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
<b>Iron</b>	<b>0.37</b>		0.20	0.20	mg/L		09/09/15 10:30	09/10/15 05:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/09/15 10:30	09/10/15 05:40	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:40	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
Nickel	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
<b>Potassium</b>	<b>4.1</b>		2.5	0.50	mg/L		09/09/15 10:30	09/10/15 05:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 10:30	09/10/15 05:40	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
Vanadium	<0.025		0.025	0.010	mg/L		09/09/15 10:30	09/10/15 05:40	1
<b>Zinc</b>	<b>1.3</b>	<b>B</b>	0.10	0.020	mg/L		09/09/15 10:30	09/10/15 05:40	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.017</b>	<b>J</b>	0.050	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/09/15 19:35	09/10/15 15:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Calcium</b>	<b>30</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Chromium</b>	<b>0.070</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Copper</b>	<b>0.079</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Iron</b>	<b>73</b>		0.20	0.20	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Lead</b>	<b>0.068</b>		0.038	0.038	mg/L		09/09/15 19:35	09/10/15 19:29	5
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Nickel</b>	<b>0.070</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Potassium</b>	<b>12</b>		2.5	0.50	mg/L		09/09/15 19:35	09/10/15 22:09	1
Selenium	<0.050		0.050	0.020	mg/L		09/09/15 19:35	09/10/15 15:55	1
Silver	<0.025		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Vanadium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/09/15 19:35	09/10/15 15:55	1
<b>Zinc</b>	<b>0.87</b>		0.10	0.020	mg/L		09/09/15 19:35	09/10/15 15:55	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 10:30	09/10/15 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 10:30	09/10/15 19:49	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/09/15 19:35	09/15/15 13:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/15 19:35	09/15/15 13:01	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/10/15 16:00	09/11/15 09:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

**Client Sample ID: 2618-9-B01 DUP (6-13)**

**Lab Sample ID: 500-100839-12**

Date Collected: 09/03/15 13:40

Matrix: Solid

Date Received: 09/04/15 09:30

Percent Solids: 76.0

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/09/15 16:00	09/10/15 09:45	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053	B	0.019	0.0067	mg/Kg	☼	09/10/15 15:00	09/11/15 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.65		0.65	0.21	mg/Kg	☼	09/10/15 16:15	09/10/15 18:20	1
pH	8.28		0.200	0.200	SU			09/10/15 21:00	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100839-2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) MATT WEISS  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100839  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments					
<u>TERRACON</u>		<u>157108</u>													
Project Name				Project Location/State				Lab Project #							
				<u>HAFFMAN ESTATES, IL</u>											
Sampler				Lab PM											
<u>TOM DILLAZINA</u>															
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL 24	INORGANICS	TCUP 24	INORGANICS	SPEC	INORGANICS	PIT
			Date	Time											
7		2168-9-B01(0-6)	9/3/15	1330	6	SO	X	X	X	X	X	X	X	X	
8		2168-9-B01(6-13)	9/3/15	1340	1	SO	↓	↓	↓	↓	↓	↓	↓	↓	
9		2168-9-B02(0-6)		1300	1	SO	↓	↓	↓	↓	↓	↓	↓	↓	
10		2168-9-B02(6-13)		1305	1	SO	↓	↓	↓	↓	↓	↓	↓	↓	
11		2168-9-B02		1315	1	W	↓	↓	↓	↓	↓	↓	↓	↓	
12		2168-9-B01 Dup(6-13)		1340											

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>TERRACON</u> Date: <u>9/4/15</u> Time: <u>810</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>0810</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/4/15</u> Time: <u>0930</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHP</u> Date: <u>9/4/15</u> Time: <u>0930</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - CL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: MEET IL TACO REQUIREMENTS  
DO NOT RUN ALUMINUM FOR TCLP

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100839-2

**Login Number: 100839**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3,3.6,3.0,4.0,3.3,3.1,2.7,2.5,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-100873-2  
Client Project/Site: IDOT - Hoffman Estates - WO 08

For:  
Terracon Consulting Eng & Scientists  
135 Ambassador Drive  
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:  
9/18/2015 12:50:18 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Job ID: 500-100873-2**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-100873-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/4/2015 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.4° C, 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.0° C, 3.1° C, 3.2° C, 3.2° C, 3.6° C and 3.7° C.

#### GC/MS VOA

Method(s) 5035: Sample vial 500-100873-A-30 was cracked and is unusable for analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: 2618-9-B03 (0-6) (500-100873-27), 2618-9-B03 DUP (0-6) (500-100873-28) and 2618-9-B03 (6-13) (500-100873-29). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (0-6)**

**Lab Sample ID: 500-100873-27**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.038		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.061		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.21		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.6		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.043		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0073	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.59		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	0.94		0.073	0.0098	mg/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.98		0.073	0.014	mg/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1.6		0.073	0.016	mg/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.39		0.073	0.024	mg/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.57		0.073	0.022	mg/Kg	2	☼	8270D	Total/NA
Chrysene - DL	0.94		0.073	0.020	mg/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.12		0.073	0.014	mg/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.44		0.073	0.019	mg/Kg	2	☼	8270D	Total/NA
Pyrene - DL	2.2		0.073	0.015	mg/Kg	2	☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	58000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	280		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	62	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.094		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.57		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.24	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	26	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	17		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	9.2	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

## Client Sample ID: 2618-9-B03 (0-6) (Continued)

## Lab Sample ID: 500-100873-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4.2	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0060	mg/Kg	1	*	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-9-B03 DUP (0-6)

## Lab Sample ID: 500-100873-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.031	J	0.035	0.0046	mg/Kg	1	*	8270D	Total/NA
Anthracene	0.044		0.035	0.0059	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.20		0.035	0.0047	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.20		0.035	0.0068	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.035	0.0076	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.10		0.035	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.035	0.010	mg/Kg	1	*	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.55		0.18	0.064	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.21		0.035	0.0096	mg/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	0.044		0.035	0.0068	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.30		0.035	0.0065	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.026	J	0.035	0.0049	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.035	0.0091	mg/Kg	1	*	8270D	Total/NA
2-Methylnaphthalene	0.078		0.035	0.0065	mg/Kg	1	*	8270D	Total/NA
Naphthalene	0.013	J	0.035	0.0054	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.17		0.035	0.0049	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.59		0.035	0.0070	mg/Kg	1	*	8270D	Total/NA
Arsenic	6.8	F1	2.5	1.2	mg/Kg	5	*	6010B	Total/NA
Barium	36		2.5	0.46	mg/Kg	5	*	6010B	Total/NA
Beryllium	0.37	J	1.0	0.22	mg/Kg	5	*	6010B	Total/NA
Chromium	21	F1	2.5	0.44	mg/Kg	5	*	6010B	Total/NA
Cobalt	5.0		1.3	0.29	mg/Kg	5	*	6010B	Total/NA
Copper	18		2.5	0.55	mg/Kg	5	*	6010B	Total/NA
Iron	18000	F2	51	20	mg/Kg	5	*	6010B	Total/NA
Lead	100	F2	1.3	0.63	mg/Kg	5	*	6010B	Total/NA
Magnesium	68000		25	10	mg/Kg	5	*	6010B	Total/NA
Calcium	120000		51	16	mg/Kg	5	*	6010B	Total/NA
Manganese	730		2.5	0.50	mg/Kg	5	*	6010B	Total/NA
Nickel	12		2.5	0.69	mg/Kg	5	*	6010B	Total/NA
Thallium	2.0	J F1 F2	2.5	1.2	mg/Kg	5	*	6010B	Total/NA
Vanadium	20		1.3	0.37	mg/Kg	5	*	6010B	Total/NA
Zinc	52	F1	5.1	1.6	mg/Kg	5	*	6010B	Total/NA
Potassium	1200	F1	130	21	mg/Kg	5	*	6010B	Total/NA
Sodium	250	F1	250	33	mg/Kg	5	*	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0084		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

## Client Sample ID: 2618-9-B03 DUP (0-6) (Continued)

## Lab Sample ID: 500-100873-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.12		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.14	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	18	B	6.0	0.50	mg/L	1		6010B	SPLP East
Iron	0.57		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	6.3	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.28	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.27		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-9-B03 (6-13)

## Lab Sample ID: 500-100873-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.022	0.0043	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	1.2		0.043	0.0078	mg/Kg	1	☼	8270D	Total/NA
Anthracene	3.0		0.043	0.0072	mg/Kg	1	☼	8270D	Total/NA
Carbazole	1.2		0.22	0.11	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.98		0.22	0.051	mg/Kg	1	☼	8270D	Total/NA
Fluorene	1.9		0.043	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.32		0.043	0.0079	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.35		0.043	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	3.3		0.21	0.029	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	2.6		0.21	0.042	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	4.1		0.21	0.047	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.94		0.21	0.070	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.7		0.21	0.064	mg/Kg	5	☼	8270D	Total/NA
Chrysene - DL	3.4		0.21	0.059	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.24		0.21	0.042	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	11		0.21	0.040	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	1.0		0.21	0.056	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene - DL	13		0.21	0.030	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	13		0.21	0.043	mg/Kg	5	☼	8270D	Total/NA
Antimony	2.1		1.3	0.27	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3		0.64	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.64	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.26	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.64	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.32	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.64	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	61		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		6.4	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000		13	4.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.64	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.64	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.0		0.64	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.32	0.093	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

## Client Sample ID: 2618-9-B03 (6-13) (Continued)

## Lab Sample ID: 500-100873-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2200		32	5.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		64	8.4	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	190		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.018		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	56		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.53		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.023	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.53	B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	29	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.090		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	66		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.24		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	15	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	8.0	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.41	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.041		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2618-9-B04 (0-6)

## Lab Sample ID: 500-100873-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0072	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.039		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.053		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.23		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.36		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.094		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.033	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.36		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0065	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.19		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (0-6) (Continued)**

**Lab Sample ID: 500-100873-30**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.45		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.064	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.3		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	38000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.87		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	400		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.026	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.27	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	28	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	59		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.039		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	9.2	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.059		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	SPLP East
Mercury	0.036		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2618-9-B04 (6-13)**

**Lab Sample ID: 500-100873-31**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.016	J	0.040	0.0073	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.050		0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.16		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (6-13) (Continued)**

**Lab Sample ID: 500-100873-31**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.16		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.23		0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.051		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.090		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.17		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.014	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.41		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.020	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.060		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.20		0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.35		0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.13	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		13	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		6.3	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000		13	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55	J	0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		63	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	79		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.32	J B	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	24	B	6.0	0.50	mg/L	1		6010B	SPLP East
Chromium	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	17		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.040		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	8.7	B	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	5.8	B	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19	J B	0.50	0.020	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (6-13) (Continued)**

**Lab Sample ID: 500-100873-31**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.041		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	7.71		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-100873-27	2618-9-B03 (0-6)	Solid	09/04/15 14:45	09/04/15 21:00
500-100873-28	2618-9-B03 DUP (0-6)	Solid	09/04/15 14:50	09/04/15 21:00
500-100873-29	2618-9-B03 (6-13)	Solid	09/04/15 14:55	09/04/15 21:00
500-100873-30	2618-9-B04 (0-6)	Solid	09/04/15 15:10	09/04/15 21:00
500-100873-31	2618-9-B04 (6-13)	Solid	09/04/15 15:15	09/04/15 21:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (0-6)**

**Lab Sample ID: 500-100873-27**

**Date Collected: 09/04/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/04/15 22:30	09/11/15 17:49	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 17:49	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	09/04/15 22:30	09/11/15 17:49	1
Toluene-d8 (Surr)	117		75 - 122	09/04/15 22:30	09/11/15 17:49	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.038		0.036	0.0066	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Acenaphthylene	0.061		0.036	0.0048	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Anthracene	0.21		0.036	0.0061	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (0-6)**

**Lab Sample ID: 500-100873-27**

**Date Collected: 09/04/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
<b>Fluoranthene</b>	<b>1.6</b>		0.036	0.0068	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
<b>Fluorene</b>	<b>0.043</b>		0.036	0.0051	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
<b>Naphthalene</b>	<b>0.0073 J</b>		0.036	0.0056	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
<b>Phenanthrene</b>	<b>0.59</b>		0.036	0.0051	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (0-6)**

**Lab Sample ID: 500-100873-27**

Date Collected: 09/04/15 14:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 90.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 08:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119				09/10/15 07:29	09/15/15 08:29	1
2-Fluorophenol	96		25 - 110				09/10/15 07:29	09/15/15 08:29	1
Nitrobenzene-d5	90		25 - 115				09/10/15 07:29	09/15/15 08:29	1
Phenol-d5	94		31 - 110				09/10/15 07:29	09/15/15 08:29	1
Terphenyl-d14	171	X	36 - 134				09/10/15 07:29	09/15/15 08:29	1
2,4,6-Tribromophenol	77		35 - 137				09/10/15 07:29	09/15/15 08:29	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.94		0.073	0.0098	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Benzo[a]pyrene	0.98		0.073	0.014	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Benzo[b]fluoranthene	1.6		0.073	0.016	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Benzo[g,h,i]perylene	0.39		0.073	0.024	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Benzo[k]fluoranthene	0.57		0.073	0.022	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Chrysene	0.94		0.073	0.020	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Dibenz(a,h)anthracene	0.12		0.073	0.014	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Indeno[1,2,3-cd]pyrene	0.44		0.073	0.019	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2
Pyrene	2.2		0.073	0.015	mg/Kg	☼	09/10/15 07:29	09/16/15 03:02	2

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.22	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Arsenic	6.3		0.54	0.25	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Barium	51		0.54	0.099	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Beryllium	0.50		0.22	0.047	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Cadmium	0.28		0.11	0.031	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Chromium	12		0.54	0.093	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Cobalt	8.4		0.27	0.061	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Copper	18		0.54	0.12	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Iron	18000		11	4.2	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Lead	37		0.27	0.13	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Magnesium	26000		5.4	2.2	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Calcium	58000		110	35	mg/Kg	☼	09/10/15 12:00	09/11/15 16:41	10
Manganese	280		0.54	0.11	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Nickel	20		0.54	0.15	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	09/10/15 12:00	09/11/15 16:36	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Vanadium	20		0.27	0.079	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Zinc	62	B	1.1	0.34	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Potassium	1100		27	4.4	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1
Sodium	150		54	7.1	mg/Kg	☼	09/10/15 12:00	09/11/15 00:36	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (0-6)**

**Lab Sample ID: 500-100873-27**

Date Collected: 09/04/15 14:45

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 90.6

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 12:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 12:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 12:57	1
<b>Calcium</b>	<b>350</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 12:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 12:57	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:57	1
<b>Manganese</b>	<b>0.094</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 12:57	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 12:57	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 12:57	1
<b>Zinc</b>	<b>0.57</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 12:57	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Barium</b>	<b>0.24</b>	<b>J B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 21:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 21:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Calcium</b>	<b>26</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Chromium</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Iron</b>	<b>17</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Lead</b>	<b>0.015</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Magnesium</b>	<b>9.2</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Potassium</b>	<b>4.2</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 21:53	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 21:53	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Vanadium</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 21:53	1
<b>Zinc</b>	<b>0.18</b>	<b>J B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 21:53	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:55	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (0-6)**

**Lab Sample ID: 500-100873-27**

**Date Collected: 09/04/15 14:45**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 90.6**

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:47	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.029</b>		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 12:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/11/15 13:40	09/11/15 16:08	1
pH	<b>8.47</b>		0.200	0.200	SU			09/11/15 12:15	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 DUP (0-6)**

**Lab Sample ID: 500-100873-28**

**Date Collected: 09/04/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 94.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Bromoform	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Chloromethane	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Vinyl chloride	<0.0041		0.0041	0.00099	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	09/04/15 22:30	09/11/15 18:14	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/11/15 18:14	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 22:30	09/11/15 18:14	1
Toluene-d8 (Surr)	115		75 - 122	09/04/15 22:30	09/11/15 18:14	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Acenaphthylene	0.031	J	0.035	0.0046	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Anthracene	0.044		0.035	0.0059	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Benzo[a]anthracene	0.20		0.035	0.0047	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 DUP (0-6)**

**Lab Sample ID: 500-100873-28**

**Date Collected: 09/04/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 94.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.20		0.035	0.0068	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Benzo[b]fluoranthene	0.33		0.035	0.0076	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Benzo[g,h,i]perylene	0.10		0.035	0.011	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Benzo[k]fluoranthene	0.12		0.035	0.010	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Bis(2-ethylhexyl) phthalate	0.55		0.18	0.064	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Chrysene	0.21		0.035	0.0096	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Dibenz(a,h)anthracene	0.044		0.035	0.0068	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Fluoranthene	0.30		0.035	0.0065	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Fluorene	0.026 J		0.035	0.0049	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Indeno[1,2,3-cd]pyrene	0.11		0.035	0.0091	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2-Methylnaphthalene	0.078		0.035	0.0065	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Naphthalene	0.013 J		0.035	0.0054	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 DUP (0-6)**

**Lab Sample ID: 500-100873-28**

Date Collected: 09/04/15 14:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 94.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
<b>Phenanthrene</b>	<b>0.17</b>		0.035	0.0049	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
<b>Pyrene</b>	<b>0.59</b>		0.035	0.0070	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	09/10/15 07:29	09/17/15 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	09/10/15 07:29	09/17/15 13:22	1
2-Fluorophenol	89		25 - 110	09/10/15 07:29	09/17/15 13:22	1
Nitrobenzene-d5	86		25 - 115	09/10/15 07:29	09/17/15 13:22	1
Phenol-d5	90		31 - 110	09/10/15 07:29	09/17/15 13:22	1
Terphenyl-d14	173	X	36 - 134	09/10/15 07:29	09/17/15 13:22	1
2,4,6-Tribromophenol	73		35 - 137	09/10/15 07:29	09/17/15 13:22	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.1	F1	5.1	1.1	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Arsenic</b>	<b>6.8</b>	<b>F1</b>	2.5	1.2	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Barium</b>	<b>36</b>		2.5	0.46	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Beryllium</b>	<b>0.37</b>	<b>J</b>	1.0	0.22	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
Cadmium	<0.51		0.51	0.15	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Chromium</b>	<b>21</b>	<b>F1</b>	2.5	0.44	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Cobalt</b>	<b>5.0</b>		1.3	0.29	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Copper</b>	<b>18</b>		2.5	0.55	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Iron</b>	<b>18000</b>	<b>F2</b>	51	20	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Lead</b>	<b>100</b>	<b>F2</b>	1.3	0.63	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Magnesium</b>	<b>68000</b>		25	10	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Calcium</b>	<b>120000</b>		51	16	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Manganese</b>	<b>730</b>		2.5	0.50	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Nickel</b>	<b>12</b>		2.5	0.69	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
Selenium	<2.5		2.5	1.3	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
Silver	<1.3		1.3	0.30	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Thallium</b>	<b>2.0</b>	<b>J F1 F2</b>	2.5	1.2	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Vanadium</b>	<b>20</b>		1.3	0.37	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Zinc</b>	<b>52</b>	<b>F1</b>	5.1	1.6	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Potassium</b>	<b>1200</b>	<b>F1</b>	130	21	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5
<b>Sodium</b>	<b>250</b>	<b>F1</b>	250	33	mg/Kg	☼	09/10/15 18:43	09/14/15 13:48	5

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 13:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 13:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 13:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 DUP (0-6)**

**Lab Sample ID: 500-100873-28**

**Date Collected: 09/04/15 14:50**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 94.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>310</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 13:02	1
<b>Lead</b>	<b>0.0084</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 13:02	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:02	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 13:02	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:02	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 13:02	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
<b>Barium</b>	<b>0.14</b>	<b>J B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 22:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 22:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 22:00	1
<b>Calcium</b>	<b>18</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 22:00	1
Chromium	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
Copper	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
<b>Iron</b>	<b>0.57</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 22:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 22:00	1
<b>Magnesium</b>	<b>6.3</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:00	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
Nickel	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
<b>Potassium</b>	<b>2.1</b>	<b>J B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:00	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 22:00	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
Vanadium	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:00	1
<b>Zinc</b>	<b>0.28</b>	<b>J B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 22:00	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:56	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:38	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 DUP (0-6)**

**Lab Sample ID: 500-100873-28**

Date Collected: 09/04/15 14:50

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 94.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0059	mg/Kg	☼	09/11/15 17:00	09/14/15 12:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	09/11/15 13:40	09/11/15 16:08	1
pH	8.27		0.200	0.200	SU			09/11/15 12:21	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (6-13)**

**Lab Sample ID: 500-100873-29**

Date Collected: 09/04/15 14:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 75.8

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.025</b>		0.022	0.0043	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Benzene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Bromodichloromethane	<0.0056		0.0056	0.00094	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Bromoform	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Carbon disulfide	<0.0056		0.0056	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Carbon tetrachloride	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Chlorobenzene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Chloroethane	<0.0056		0.0056	0.0023	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Chloroform	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Chloromethane	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Dibromochloromethane	<0.0056		0.0056	0.00064	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,1-Dichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,1-Dichloroethene	<0.0056		0.0056	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,2-Dichloropropane	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,3-Dichloropropane, Total	<0.0056		0.0056	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Ethylbenzene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Methylene Chloride	<0.0056		0.0056	0.0042	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Methyl tert-butyl ether	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Styrene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00088	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Tetrachloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Toluene	<0.0056		0.0056	0.0019	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Trichloroethene	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Vinyl acetate	<0.0056		0.0056	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Vinyl chloride	<0.0056		0.0056	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	09/04/15 22:30	09/11/15 18:39	1
Dibromofluoromethane	105		75 - 120	09/04/15 22:30	09/11/15 18:39	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	09/04/15 22:30	09/11/15 18:39	1
Toluene-d8 (Surr)	114		75 - 122	09/04/15 22:30	09/11/15 18:39	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>1.2</b>		0.043	0.0078	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
<b>Anthracene</b>	<b>3.0</b>		0.043	0.0072	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (6-13)**

**Lab Sample ID: 500-100873-29**

**Date Collected: 09/04/15 14:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 75.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
<b>Carbazole</b>	<b>1.2</b>		0.22	0.11	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2-Chlorophenol	<0.22		0.22	0.074	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
<b>Dibenzofuran</b>	<b>0.98</b>		0.22	0.051	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,4-Dinitrotoluene	<0.22		0.22	0.069	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
<b>Fluorene</b>	<b>1.9</b>		0.043	0.0061	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Hexachloroethane	<0.22		0.22	0.066	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
<b>2-Methylnaphthalene</b>	<b>0.32</b>		0.043	0.0079	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
<b>Naphthalene</b>	<b>0.35</b>		0.043	0.0066	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.053	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
Phenol	<0.22		0.22	0.096	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,4,5-Trichlorophenol	<0.43		0.43	0.099	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 09:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (6-13)**

**Lab Sample ID: 500-100873-29**

**Date Collected: 09/04/15 14:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 75.8**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	09/10/15 07:29	09/15/15 09:15	1
2-Fluorophenol	92		25 - 110	09/10/15 07:29	09/15/15 09:15	1
Nitrobenzene-d5	89		25 - 115	09/10/15 07:29	09/15/15 09:15	1
Phenol-d5	93		31 - 110	09/10/15 07:29	09/15/15 09:15	1
Terphenyl-d14	170	X	36 - 134	09/10/15 07:29	09/15/15 09:15	1
2,4,6-Tribromophenol	50		35 - 137	09/10/15 07:29	09/15/15 09:15	1

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	3.3		0.21	0.029	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Benzo[a]pyrene	2.6		0.21	0.042	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Benzo[b]fluoranthene	4.1		0.21	0.047	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Benzo[g,h,i]perylene	0.94		0.21	0.070	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Benzo[k]fluoranthene	1.7		0.21	0.064	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Chrysene	3.4		0.21	0.059	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Dibenz(a,h)anthracene	0.24		0.21	0.042	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Fluoranthene	11		0.21	0.040	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Indeno[1,2,3-cd]pyrene	1.0		0.21	0.056	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Phenanthrene	13		0.21	0.030	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5
Pyrene	13		0.21	0.043	mg/Kg	☼	09/10/15 07:29	09/16/15 16:07	5

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.3	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Arsenic	9.3		0.64	0.30	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Barium	74		0.64	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Beryllium	0.70		0.26	0.055	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Cadmium	0.13		0.13	0.037	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Chromium	18		0.64	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Cobalt	9.4		0.32	0.072	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Copper	24		0.64	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Iron	24000		13	4.9	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Lead	61		0.32	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Magnesium	16000		6.4	2.6	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Calcium	25000		13	4.1	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Manganese	480		0.64	0.13	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Nickel	23		0.64	0.17	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Selenium	<0.64		0.64	0.32	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Thallium	2.0		0.64	0.31	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Vanadium	25		0.32	0.093	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Zinc	85		1.3	0.40	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Potassium	2200		32	5.2	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1
Sodium	1200		64	8.4	mg/Kg	☼	09/10/15 18:43	09/12/15 06:44	1

### Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.050	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Barium	0.59		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 13:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 13:07	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 13:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (6-13)**

**Lab Sample ID: 500-100873-29**

Date Collected: 09/04/15 14:55

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 75.8

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:07	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Cobalt	0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Copper	0.014	J	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Iron	0.31		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 13:07	1
Lead	0.018		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 13:07	1
Magnesium	56		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:07	1
Manganese	7.1		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Nickel	0.020	J	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Potassium	3.5		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:07	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 13:07	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:07	1
Zinc	0.53		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 13:07	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.023	J	0.050	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Barium	0.53	B	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 22:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 22:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 22:07	1
Calcium	29	B	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 22:07	1
Chromium	0.056		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Cobalt	0.024	J	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Copper	0.090		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Iron	66		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 22:07	1
Lead	0.24		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 22:07	1
Magnesium	15	B	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:07	1
Manganese	0.95		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Nickel	0.058		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Potassium	8.0	B	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:07	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 22:07	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Vanadium	0.073		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:07	1
Zinc	0.41	J B	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 22:07	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:56	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:39	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B03 (6-13)**

**Lab Sample ID: 500-100873-29**

**Date Collected: 09/04/15 14:55**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 75.8**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:26	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 12:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	09/11/15 13:40	09/11/15 16:09	1
pH	8.28		0.200	0.200	SU			09/11/15 12:27	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (0-6)**

**Lab Sample ID: 500-100873-30**

**Date Collected: 09/04/15 15:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Vinyl acetate	<0.0047		0.0047	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	09/04/15 22:30	09/11/15 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	09/04/15 22:30	09/11/15 19:04	1
Dibromofluoromethane	104		75 - 120	09/04/15 22:30	09/11/15 19:04	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/04/15 22:30	09/11/15 19:04	1
Toluene-d8 (Surr)	116		75 - 122	09/04/15 22:30	09/11/15 19:04	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0072	J	0.036	0.0065	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Acenaphthylene	0.039		0.036	0.0048	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Anthracene	0.053		0.036	0.0061	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Benzo[a]anthracene	0.22		0.036	0.0049	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (0-6)**

**Lab Sample ID: 500-100873-30**

**Date Collected: 09/04/15 15:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.23		0.036	0.0070	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Benzo[b]fluoranthene	0.36		0.036	0.0078	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Benzo[g,h,i]perylene	0.094		0.036	0.012	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Benzo[k]fluoranthene	0.15		0.036	0.011	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Chrysene	0.25		0.036	0.0099	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Dibenz(a,h)anthracene	0.033	J	0.036	0.0070	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Fluoranthene	0.36		0.036	0.0067	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Fluorene	0.016	J	0.036	0.0051	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Indeno[1,2,3-cd]pyrene	0.10		0.036	0.0094	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Naphthalene	0.0065	J	0.036	0.0056	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (0-6)**

**Lab Sample ID: 500-100873-30**

Date Collected: 09/04/15 15:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
<b>Phenanthrene</b>	<b>0.19</b>		0.036	0.0051	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
<b>Pyrene</b>	<b>0.45</b>		0.036	0.0072	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	09/10/15 07:29	09/16/15 04:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/10/15 07:29	09/16/15 04:12	1
2-Fluorophenol	91		25 - 110	09/10/15 07:29	09/16/15 04:12	1
Nitrobenzene-d5	93		25 - 115	09/10/15 07:29	09/16/15 04:12	1
Phenol-d5	87		31 - 110	09/10/15 07:29	09/16/15 04:12	1
Terphenyl-d14	111		36 - 134	09/10/15 07:29	09/16/15 04:12	1
2,4,6-Tribromophenol	49		35 - 137	09/10/15 07:29	09/16/15 04:12	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.28</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Arsenic</b>	<b>6.9</b>		0.57	0.27	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Barium</b>	<b>70</b>		0.57	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Beryllium</b>	<b>0.59</b>		0.23	0.050	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Cadmium</b>	<b>0.064</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Chromium</b>	<b>15</b>		0.57	0.099	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Cobalt</b>	<b>6.3</b>		0.29	0.065	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Copper</b>	<b>19</b>		0.57	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Lead</b>	<b>20</b>		0.29	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Magnesium</b>	<b>24000</b>		5.7	2.3	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Calcium</b>	<b>38000</b>		11	3.7	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Manganese</b>	<b>300</b>		0.57	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Nickel</b>	<b>16</b>		0.57	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Thallium</b>	<b>0.87</b>		0.57	0.28	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Vanadium</b>	<b>20</b>		0.29	0.084	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Zinc</b>	<b>47</b>		1.1	0.36	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Potassium</b>	<b>1600</b>		29	4.7	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1
<b>Sodium</b>	<b>400</b>		57	7.6	mg/Kg	☼	09/10/15 18:43	09/12/15 06:51	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 13:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 13:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 13:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (0-6)**

**Lab Sample ID: 500-100873-30**

Date Collected: 09/04/15 15:10

Matrix: Solid

Date Received: 09/04/15 21:00

Percent Solids: 86.9

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 13:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 13:12	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:12	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 13:12	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:12	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 13:12	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.026</b>	<b>J</b>	0.050	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Barium</b>	<b>0.27</b>	<b>J B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 22:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 22:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Calcium</b>	<b>28</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Chromium</b>	<b>0.052</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Copper</b>	<b>0.057</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Iron</b>	<b>59</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Lead</b>	<b>0.039</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Magnesium</b>	<b>18</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Nickel</b>	<b>0.058</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Potassium</b>	<b>9.2</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 22:29	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Vanadium</b>	<b>0.059</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:29	1
<b>Zinc</b>	<b>0.22</b>	<b>J B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 22:29	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:57	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:39	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:52	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (0-6)**

**Lab Sample ID: 500-100873-30**

**Date Collected: 09/04/15 15:10**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 86.9**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:28	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.017	0.0060	mg/Kg	☼	09/11/15 17:00	09/14/15 12:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/11/15 15:50	09/11/15 17:51	1
pH	8.43		0.200	0.200	SU			09/11/15 12:33	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (6-13)**

**Lab Sample ID: 500-100873-31**

**Date Collected: 09/04/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0045	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Benzene	<0.0058		0.0058	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Bromodichloromethane	<0.0058		0.0058	0.00098	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Bromoform	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Bromomethane	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Carbon disulfide	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Carbon tetrachloride	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Chlorobenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Chloroethane	<0.0058		0.0058	0.0024	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Chloroform	<0.0058		0.0058	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Chloromethane	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Dibromochloromethane	<0.0058		0.0058	0.00067	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,1-Dichloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,1-Dichloroethene	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,2-Dichloropropane	<0.0058		0.0058	0.0015	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Ethylbenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Methylene Chloride	<0.0058		0.0058	0.0044	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Methyl tert-butyl ether	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Styrene	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Tetrachloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Toluene	<0.0058		0.0058	0.0020	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.0013	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.0011	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Trichloroethene	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Vinyl acetate	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Vinyl chloride	<0.0058		0.0058	0.0014	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1
Xylenes, Total	<0.012		0.012	0.0021	mg/Kg	☼	09/04/15 22:30	09/11/15 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/04/15 22:30	09/11/15 19:29	1
Dibromofluoromethane	101		75 - 120	09/04/15 22:30	09/11/15 19:29	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/04/15 22:30	09/11/15 19:29	1
Toluene-d8 (Surr)	113		75 - 122	09/04/15 22:30	09/11/15 19:29	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.016	J	0.040	0.0073	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Anthracene	0.050		0.040	0.0068	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Benzo[a]anthracene	0.16		0.040	0.0055	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (6-13)**

**Lab Sample ID: 500-100873-31**

**Date Collected: 09/04/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.16		0.040	0.0079	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Benzo[b]fluoranthene	0.23		0.040	0.0088	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Benzo[g,h,i]perylene	0.051		0.040	0.013	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Benzo[k]fluoranthene	0.090		0.040	0.012	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Chrysene	0.17		0.040	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Dibenz(a,h)anthracene	0.014	J	0.040	0.0078	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Fluoranthene	0.41		0.040	0.0075	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Fluorene	0.020	J	0.040	0.0057	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Indeno[1,2,3-cd]pyrene	0.060		0.040	0.011	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (6-13)**

**Lab Sample ID: 500-100873-31**

**Date Collected: 09/04/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
<b>Phenanthrene</b>	<b>0.20</b>		0.040	0.0057	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
<b>Pyrene</b>	<b>0.35</b>		0.040	0.0081	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/10/15 07:29	09/15/15 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	09/10/15 07:29	09/15/15 04:38	1
2-Fluorophenol	96		25 - 110	09/10/15 07:29	09/15/15 04:38	1
Nitrobenzene-d5	93		25 - 115	09/10/15 07:29	09/15/15 04:38	1
Phenol-d5	86		31 - 110	09/10/15 07:29	09/15/15 04:38	1
Terphenyl-d14	98		36 - 134	09/10/15 07:29	09/15/15 04:38	1
2,4,6-Tribromophenol	62		35 - 137	09/10/15 07:29	09/15/15 04:38	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Arsenic</b>	<b>6.5</b>		0.63	0.29	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Barium</b>	<b>82</b>		0.63	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Beryllium</b>	<b>0.61</b>		0.25	0.054	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Cadmium</b>	<b>0.10 J</b>		0.13	0.036	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Chromium</b>	<b>15</b>		0.63	0.11	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Cobalt</b>	<b>7.5</b>		0.31	0.071	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Copper</b>	<b>19</b>		0.63	0.14	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Iron</b>	<b>21000</b>		13	4.8	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Lead</b>	<b>32</b>		0.31	0.16	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Magnesium</b>	<b>13000</b>		6.3	2.5	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Calcium</b>	<b>22000</b>		13	4.0	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Manganese</b>	<b>300</b>		0.63	0.12	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Nickel</b>	<b>17</b>		0.63	0.17	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Selenium</b>	<b>0.55 J</b>		0.63	0.31	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Thallium</b>	<b>1.3</b>		0.63	0.31	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Vanadium</b>	<b>21</b>		0.31	0.091	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Zinc</b>	<b>59</b>		1.3	0.40	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Potassium</b>	<b>1600</b>		31	5.1	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1
<b>Sodium</b>	<b>1300</b>		63	8.3	mg/Kg	☼	09/10/15 18:43	09/12/15 06:57	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 13:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 13:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 13:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (6-13)**

**Lab Sample ID: 500-100873-31**

**Date Collected: 09/04/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 13:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 13:17	1
<b>Magnesium</b>	<b>79</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:17	1
<b>Manganese</b>	<b>6.3</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 13:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 13:17	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 13:17	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		09/16/15 15:00	09/17/15 13:17	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Barium</b>	<b>0.32</b>	<b>J B</b>	0.50	0.050	mg/L		09/14/15 11:00	09/14/15 22:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/14/15 11:00	09/14/15 22:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Calcium</b>	<b>24</b>	<b>B</b>	6.0	0.50	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Chromium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
Cobalt	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Iron</b>	<b>17</b>		0.20	0.20	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Lead</b>	<b>0.040</b>		0.0075	0.0075	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Magnesium</b>	<b>8.7</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Potassium</b>	<b>5.8</b>	<b>B</b>	2.5	0.50	mg/L		09/14/15 11:00	09/14/15 22:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/14/15 11:00	09/14/15 22:36	1
Silver	<0.025		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Vanadium</b>	<b>0.033</b>		0.025	0.010	mg/L		09/14/15 11:00	09/14/15 22:36	1
<b>Zinc</b>	<b>0.19</b>	<b>J B</b>	0.50	0.020	mg/L		09/14/15 11:00	09/14/15 22:36	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 10:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 10:58	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/14/15 11:00	09/15/15 15:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/14/15 11:00	09/15/15 15:40	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/14/15 19:00	09/15/15 14:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

**Client Sample ID: 2618-9-B04 (6-13)**

**Lab Sample ID: 500-100873-31**

**Date Collected: 09/04/15 15:15**

**Matrix: Solid**

**Date Received: 09/04/15 21:00**

**Percent Solids: 79.6**

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 12:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0069	mg/Kg	☼	09/11/15 17:00	09/14/15 12:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/11/15 15:50	09/11/15 17:51	1
pH	7.71		0.200	0.200	SU			09/11/15 12:39	1



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - Hoffman Estates - WO 08

TestAmerica Job ID: 500-100873-2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: 135 Ambassador Dr  
Naperville, IL 60540  
 Address: Naperville, IL 60540  
 Phone: 630-712-4263  
 Fax: 630-357-9151  
 E-Mail: matt.weiss@terracon.com

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-100823  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative														Preservative Key	
Project Name				Parameter														1. HCL, Cool to 4°	
Project Location/State		Lab Project #																2. H2SO4, Cool to 4°	
Sampler		Lab PM																3. HNO3, Cool to 4°	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	PH							
			Date	Time															
27		2618-9-B03 (0-6)	9/4/15	2:45	6	S	✓	✓	✓	✓	✓	✓	✓						
28		2618-9-B03 Dup (0-6)	9/4/15	2:50	6	S	✓	✓	✓	✓	✓	✓	✓						
29		2618-9-B03 (6-13)	9/4/15	3:05	6	S	✓	✓	✓	✓	✓	✓	✓						
30		2618-9-B04 (0-6)	9/4/15	3:10	6	S	✓	✓	✓	✓	✓	✓	✓						
31		2618-9-B04 (6-13)	9/4/15	3:15	6	S	✓	✓	✓	✓	✓	✓	✓						

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days X 10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>9/4/15</u>	Time <u>4:15</u>	Received By <u>P Neal</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>1620</u>
Relinquished By <u>P Neal</u>	Company <u>TA</u>	Date <u>9/4/15</u>	Time <u>18:55</u>	Received By <u>Sheri Scott</u>	Company <u>TA-LPL</u>	Date <u>9/4/15</u>	Time <u>2:00</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Secliment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Meet IL TACO Requirements  
Please DO NOT RUN Aluminum for  
Total /TCLP/SPLP Analysis. Thanks.

Lab Comments:



# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-100873-2

**Login Number: 100873**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,3.6,2.4,2.8,3.2,3.7,2.7,2.4,3.1,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

