



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

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

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

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

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

### I. Source Location Information

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

Project Name: Circle Interchange: Taylor Street Bridge Office Phone Number, if available: \_\_\_\_\_

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

I-90/I-94 between Grand Avenue and W. 14th Street

City: Chicago State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 41.869846906 Longitude: -87.645268660

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: Circle Interchange: Taylor Street Bridge

Latitude: 41.869846906 Longitude: -87.645268660

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

LOCATIONS IR-1 AND IR-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2615-1. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-76271-1

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

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

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

Company Name: Illinois Department of Transportation

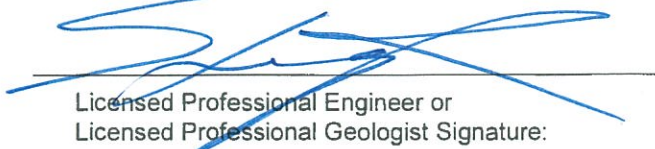
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

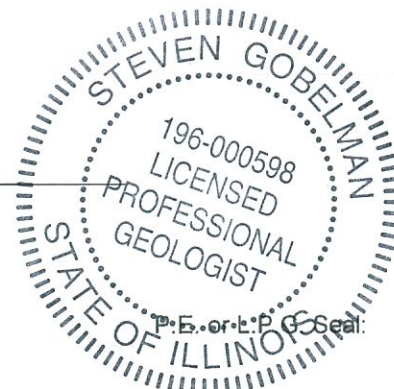
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

11/17/14  
 Date:



**Summary Table of ISGS Site No. 2615-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Circle Interchange: Taylor Street Bridge from Halsted Street to Des Plaines Street**  
**Chicago, Cook County, Illinois**

Field Sample ID	IR-1(0-6)-050514	IR-1(6-12)-050514	IR-1(12-18)-050514	IR-1(18-24)-050514	Soil Reference Concentrations <sup>A</sup>
Sample Date	5/5/2014	5/5/2014	5/5/2014	5/5/2014	
Location ID	IR-1	IR-1	IR-1	IR-1	
ISGS Site Number	2615-1	2615-1	2615-1	2615-1	
Depth	0 - 6	6 - 12	12 - 18	18 - 24	
Parameter					
Laboratory pH (s.u.)	8.83	8.4	8.66	7.74	<6.25,>9.0
<b>VOCs (ug/kg)</b>					
1,1,1-Trichloroethane	ND	5 J	ND	ND	2000
Acetone	ND	ND	ND	20	25000
Tetrachloroethene	18	23	14	7.2	60
Trichloroethene	ND	10	4.5 J	ND	60
<b>SVOCs (ug/kg)</b>					
2-Methylnaphthalene	13 J	ND	ND	38	---
Acenaphthene	10 J	13 J	ND	ND	570000
Acenaphthylene	7.8 J	14 J	8 J	ND	85000
Anthracene	34	50	24 J	ND	1.20E+07
Benzo(a)anthracene	60	170	94	ND	900 / 1100 / 1800
Benzo(a)pyrene	83	140	87	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	74	200	130	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	77	100	66	20 J	2300000
Benzo(k)fluoranthene	75	76	55	ND	9000
bis(2-Ethylhexyl)phthalate	150 J	ND	180	ND	46000
Chrysene	150	170	95	14 J	88000
Dibenzo(a,h)anthracene	ND	32 J	22 J	ND	90 / 200 / 420
Fluoranthene	190	350	190	10 J	3100000
Fluorene	ND	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	42	85	50	ND	900 / 900 / 1600
Naphthalene, SVOC	15 J	11 J	11 J	ND	1800
Phenanthrene	130	220	89	120	210000
Pyrene	180	320	170	18 J	2300000
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	3 J	3.3 J	2.3 J	6.6 J	11.3 / 13
Barium, Total	51 J	25 J	7 J	26 J	1500
Beryllium, Total	0.12 J	0.18 J	0.1 J	0.44	22
Cadmium, Total	0.21 J	0.28 J	0.2 J	0.53 J	5.2
Calcium, Total	21000 J	67000 J	8200 J	38000 J	---
Chromium, Total	2.9 J	4.6 J	2.1 J	12 J	21
Cobalt, Total	1.2 J	2.2 J	0.97 J	8.7 J	20
Copper, Total	61	41	51	26	2900
Iron, Total	4000 J+	5300 J+	3200 J+	16000 J+	15000 / 15900
Lead, Total	60 J	38 J	31 J	11 J	107
Magnesium, Total	12000 J	31000 J	4300 J	20000 J	325000
Manganese, Total	63 J	150 J	48 J	280 J	630 / 636
Mercury, Total	0.027	0.15	ND	0.024	0.89
Nickel, Total	3.6	5.8	2.9	24	100
Potassium, Total	280 J+	750 J+	170 J+	2500 J+	---
Selenium, Total	ND	ND	ND	0.36 J	1.3
Silver, Total	0.83 B	0.46 B	0.6 B	ND	4.4
Sodium, Total	70 J	490 J	180 J	580 J	---
Thallium, Total	ND	0.24 J	ND	0.82	2.6
Vanadium, Total	4.2	6.5	3.3	13	550
Zinc, Total	150 J	51 J	170 J	34 J	5100

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**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Circle Interchange: Taylor Street Bridge from Halsted Street to Des Plaines Street**  
**Chicago, Cook County, Illinois**

Field Sample ID	IR-1(0-6)-050514	IR-1(6-12)-050514	IR-1(12-18)-050514	IR-1(18-24)-050514	Soil Reference Concentrations <sup>A</sup>
Sample Date	5/5/2014	5/5/2014	5/5/2014	5/5/2014	
Location ID	IR-1	IR-1	IR-1	IR-1	
ISGS Site Number	2615-1	2615-1	2615-1	2615-1	
Depth	0 - 6	6 - 12	12 - 18	18 - 24	
Parameter					
<b>TCLP Metals (mg/l)</b>					
Barium, TCLP	0.19 J	0.26 J	0.2 J	0.46 J	2
Cadmium, TCLP	0.002 J	ND	0.0026 J	ND	0.005
Cobalt, TCLP	ND	0.012 J	ND	0.023 J	1
Copper, TCLP	0.16	0.044	0.24	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	0.02	0.014	0.052	ND	0.0075
Manganese, TCLP	0.74	1.1	0.82	1.8	0.15
Nickel, TCLP	0.015 J	0.018 J	0.017 J	0.061	0.1
Zinc, TCLP	1.4	0.34	1.8	ND	5
<b>SPLP Metals (mg/l)</b>					
Barium, SPLP	0.059 J	0.12 J	0.059 J	0.082 J	2
Chromium, SPLP	ND	0.016 J	ND	ND	0.1
Copper, SPLP	0.12	0.12	0.11	0.014 J	0.65
Iron, SPLP	2.3	11	1.9	ND	5
Lead, SPLP	0.056	0.066	0.05	ND	0.0075
Manganese, SPLP	0.04	0.11	0.03	0.078	0.15
Mercury, SPLP	ND	ND	ND	0.00017 J	0.002
Nickel, SPLP	ND	0.018 J	ND	ND	0.1
Zinc, SPLP	0.32	0.17	0.3	0.036 J	5

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

     Shaded values indicate concentration **exceeds** Reference Concentration.

**Summary Table of ISGS Site No. 2615-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Circle Interchange: Taylor Street Bridge from Halsted Street to Des Plaines Street**  
**Chicago, Cook County, Illinois**

Field Sample ID	IR-1(18-24)-050514	IR-1(24-30)-050514	IR-4(0-6)-050514	IR-4(0-6)-050514D	Soil Reference Concentrations <sup>A</sup>
Sample Date	5/5/2014	5/5/2014	5/5/2014	5/5/2014	
Location ID	IR-1	IR-1	IR-4	IR-4	
ISGS Site Number	2615-1	2615-1	2615-1	2615-1	
Depth	18 - 24	24 - 30	0 - 6	0 - 6	
Parameter					
Laboratory pH (s.u.)	7.74	7.95	8.6	8.78	<6.25,>9.0
<b>VOCs (ug/kg)</b>					
1,1,1-Trichloroethane	ND	ND	ND	ND	2000
Acetone	20	ND	ND	ND	25000
Tetrachloroethene	7.2	ND	ND	ND	60
Trichloroethene	ND	ND	ND	ND	60
<b>SVOCs (ug/kg)</b>					
2-Methylnaphthalene	38	30 J	ND	ND	---
Acenaphthene	ND	ND	ND	ND	570000
Acenaphthylene	ND	ND	ND	ND	85000
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	7.9 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	8.4 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	20 J	13 J	13 J	ND	2300000
Benzo(k)fluoranthene	ND	ND	ND	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Chrysene	14 J	ND	ND	ND	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	10 J	ND	8.3 J	ND	3100000
Fluorene	ND	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	24 J	ND	ND	1800
Phenanthrene	120	88	28 J	ND	210000
Pyrene	18 J	12 J	26 J	8 J	2300000
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	6.6 J	8 J	1.1 J	ND	11.3 / 13
Barium, Total	26 J	33 J	2 J	J	1500
Beryllium, Total	0.44	0.5	0.23 J	ND	22
Cadmium, Total	0.53 J	0.62 J	0.075 J	ND	5.2
Calcium, Total	38000 J	37000 J	170000 J	150000 J	---
Chromium, Total	12 J	14 J	2.9 J	2.6 J	21
Cobalt, Total	8.7 J	9.4 J	0.88 J	0.98 J	20
Copper, Total	26	27	2.1 J	2.1 J	2900
Iron, Total	16000 J+	21000 J+	1600 J+	1400 J+	15000 / 15900
Lead, Total	11 J	11 J	0.96 J	1 J	107
Magnesium, Total	20000 J	20000 J	100000 J	88000 J	325000
Manganese, Total	280 J	340 J	120 J	85 J	630 / 636
Mercury, Total	0.024	0.023	ND	ND	0.89
Nickel, Total	24	26	2.1 J	2.1 J	100
Potassium, Total	2500 J+	2900 J+	1200 J+	910 J+	---
Selenium, Total	0.36 J	0.31 J	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	4.4
Sodium, Total	580 J	360 J	570 J	540 J	---
Thallium, Total	0.82	1.1	ND	ND	2.6
Vanadium, Total	13	15	3.4	3.1	550
Zinc, Total	34 J	33 J	3.2 J	4.3 J	5100



**Summary Table of ISGS Site No. 2615-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Circle Interchange: Taylor Street Bridge from Halsted Street to Des Plaines Street**  
**Chicago, Cook County, Illinois**

Field Sample ID	IR-1(18-24)-050514	IR-1(24-30)-050514	IR-4(0-6)-050514	IR-4(0-6)-050514D	Soil Reference Concentrations <sup>A</sup>
Sample Date	5/5/2014	5/5/2014	5/5/2014	5/5/2014	
Location ID	IR-1	IR-1	IR-4	IR-4	
ISGS Site Number	2615-1	2615-1	2615-1	2615-1	
Depth	18 - 24	24 - 30	0 - 6	0 - 6	
Parameter					
<b>TCLP Metals (mg/l)</b>					
Barium, TCLP	0.46 J	0.51	ND	ND	2
Cadmium, TCLP	ND	ND	ND	ND	0.005
Cobalt, TCLP	0.023 J	0.018 J	0.015 J	0.014 J	1
Copper, TCLP	ND	ND	0.012 J	0.013 J	0.65
Iron, TCLP	ND	ND	3.8	3.6	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.8	2	0.62	0.55	0.15
Nickel, TCLP	0.061	0.059	0.016 J	0.014 J	0.1
Zinc, TCLP	ND	ND	ND	ND	5
<b>SPLP Metals (mg/l)</b>					
Barium, SPLP	0.082 J	0.074 J	ND	ND	2
Chromium, SPLP	ND	ND	ND	ND	0.1
Copper, SPLP	0.014 J	0.032	ND	0.05	0.65
Iron, SPLP	ND	0.22	ND	ND	5
Lead, SPLP	ND	ND	ND	ND	0.0075
Manganese, SPLP	0.078	0.076	ND	ND	0.15
Mercury, SPLP	0.00017 J	ND	ND	ND	0.002
Nickel, SPLP	ND	ND	ND	ND	0.1
Zinc, SPLP	0.036 J	0.043 J	0.03 J	0.059 J	5

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

     Shaded values indicate concentration **exceeds** Reference Concentration.

**Summary Table of ISGS Site No. 2615-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Interchange: Taylor Street Bridge from Halsted Street to Des Plaines**  
**Chicago, Cook County, Illinois**

Field Sample ID	IR-4(6-12)-050514	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	5/5/2014	
Location ID	IR-4	
ISGS Site Number	2615-1	
Depth	6 - 12	
Parameter		
Laboratory pH (s.u.)	8.17	<6.25,>9.0
<b>VOCs (ug/kg)</b>		
1,1,1-Trichloroethane	ND	2000
Acetone	ND	25000
Tetrachloroethene	7.3	60
Trichloroethene	ND	60
<b>SVOCs (ug/kg)</b>		
2-Methylnaphthalene	14 J	---
Acenaphthene	13 J	570000
Acenaphthylene	7.8 J	85000
Anthracene	55	1.20E+07
Benzo(a)anthracene	110	900 / 1100 / 1800
Benzo(a)pyrene	88	90 / 1300 / 2100
Benzo(b)fluoranthene	110	900 / 1500 / 2100
Benzo(g,h,i)perylene	30 J	2300000
Benzo(k)fluoranthene	71	9000
bis(2-Ethylhexyl)phthalate	ND	46000
Chrysene	120	88000
Dibenzo(a,h)anthracene	9.6 J	90 / 200 / 420
Fluoranthene	250	3100000
Fluorene	13 J	560000
Indeno(1,2,3-cd)pyrene	34	900 / 900 / 1600
Naphthalene, SVOC	16 J	1800
Phenanthrene	200	210000
Pyrene	180	2300000
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	2 J	11.3 / 13
Barium, Total	7.2 J	1500
Beryllium, Total	0.14 J	22
Cadmium, Total	0.21 J	5.2
Calcium, Total	63000 J	---
Chromium, Total	2.2 J	21
Cobalt, Total	0.91 J	20
Copper, Total	30	2900
Iron, Total	3100 J+	15000 / 15900
Lead, Total	19 J	107
Magnesium, Total	33000 J	325000
Manganese, Total	100 J	630 / 636
Mercury, Total	0.0097 J	0.89
Nickel, Total	2.6	100
Potassium, Total	400 J+	---
Selenium, Total	ND	1.3
Silver, Total	0.39 B	4.4
Sodium, Total	1100 J	---
Thallium, Total	ND	2.6
Vanadium, Total	3.2	550
Zinc, Total	78 J	5100

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**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Interchange: Taylor Street Bridge from Halsted Street to Des Plaines**  
**Chicago, Cook County, Illinois**

Field Sample ID	IR-4(6-12)-050514	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	5/5/2014	
Location ID	IR-4	
ISGS Site Number	2615-1	
Depth	6 - 12	
Parameter		
<b>TCLP Metals (mg/l)</b>		
Barium, TCLP	0.16 J	2
Cadmium, TCLP	0.002 J	0.005
Cobalt, TCLP	ND	1
Copper, TCLP	0.057	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	3.2	0.15
Nickel, TCLP	0.014 J	0.1
Zinc, TCLP	1.7	5
<b>SPLP Metals (mg/l)</b>		
Barium, SPLP	ND	2
Chromium, SPLP	ND	0.1
Copper, SPLP	0.019 J	0.65
Iron, SPLP	ND	5
Lead, SPLP	ND	0.0075
Manganese, SPLP	ND	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Zinc, SPLP	0.05 J	5

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-76271-1  
Client Project/Site: IDOT - Circle Interchange - 053

For:  
Weston Solutions, Inc.  
750 E. Bunker Court  
Suite 500  
Vernon Hills, Illinois 60061-1450

Attn: Mr. S. Babusukumar



Authorized for release by:  
5/20/2014 12:02:16 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

- 1
- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514**

**Lab Sample ID: 500-76271-12**

Date Collected: 05/05/14 12:40

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 94.9

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	*		05/07/14 18:48	1
Benzene	<5.3		5.3	0.72	ug/Kg	*		05/07/14 18:48	1
Bromodichloromethane	<5.3		5.3	0.91	ug/Kg	*		05/07/14 18:48	1
Bromoform	<5.3		5.3	1.2	ug/Kg	*		05/07/14 18:48	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	*		05/07/14 18:48	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	*		05/07/14 18:48	1
Carbon tetrachloride	<5.3		5.3	0.96	ug/Kg	*		05/07/14 18:48	1
Chlorobenzene	<5.3		5.3	0.53	ug/Kg	*		05/07/14 18:48	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	*		05/07/14 18:48	1
Chloroform	<5.3		5.3	0.61	ug/Kg	*		05/07/14 18:48	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	*		05/07/14 18:48	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	*		05/07/14 18:48	1
cis-1,3-Dichloropropene	<5.3		5.3	0.69	ug/Kg	*		05/07/14 18:48	1
Dibromochloromethane	<5.3		5.3	0.92	ug/Kg	*		05/07/14 18:48	1
1,1-Dichloroethane	<5.3		5.3	0.83	ug/Kg	*		05/07/14 18:48	1
1,2-Dichloroethane	<5.3		5.3	0.78	ug/Kg	*		05/07/14 18:48	1
1,1,1-Dichloroethene	<5.3		5.3	0.85	ug/Kg	*		05/07/14 18:48	1
1,2-Dichloropropane	<5.3		5.3	0.80	ug/Kg	*		05/07/14 18:48	1
1,3-Dichloropropene, Total	<5.3		5.3	0.69	ug/Kg	*		05/07/14 18:48	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	*		05/07/14 18:48	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	*		05/07/14 18:48	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	*		05/07/14 18:48	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	*		05/07/14 18:48	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	*		05/07/14 18:48	1
Methyl tert-butyl ether	<5.3		5.3	0.87	ug/Kg	*		05/07/14 18:48	1
Styrene	<5.3		5.3	0.69	ug/Kg	*		05/07/14 18:48	1
1,1,1,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	*		05/07/14 18:48	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	*		05/07/14 18:48	1
Toluene	<5.3		5.3	0.74	ug/Kg	*		05/07/14 18:48	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	*		05/07/14 18:48	1
trans-1,3-Dichloropropene	<5.3		5.3	0.94	ug/Kg	*		05/07/14 18:48	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	*		05/07/14 18:48	1
1,1,2-Trichloroethane	<5.3		5.3	0.72	ug/Kg	*		05/07/14 18:48	1
Trichloroethene	<5.3		5.3	0.87	ug/Kg	*		05/07/14 18:48	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	*		05/07/14 18:48	1
Xylenes, Total	<11		11	0.48	ug/Kg	*		05/07/14 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 122		05/07/14 18:48	1
Dibromofluoromethane	114		75 - 120		05/07/14 18:48	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134		05/07/14 18:48	1
Toluene-d8 (Surr)	107		75 - 122		05/07/14 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	*	05/14/14 07:32	05/19/14 18:11	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	*	05/14/14 07:32	05/19/14 18:11	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	*	05/14/14 07:32	05/19/14 18:11	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	*	05/14/14 07:32	05/19/14 18:11	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	*	05/14/14 07:32	05/19/14 18:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514**

**Lab Sample ID: 500-76271-12**

**Date Collected: 05/05/14 12:40**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 94.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<330		330	77	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2,4,6-Trichlorophenol	<330		330	120	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2,4-Dichlorophenol	<330		330	80	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2,4-Dinitrophenol	<680		680	590	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2,4-Dinitrotoluene	<170		170	53	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2,6-Dinitrotoluene	<170		170	66	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2-Chlorophenol	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2-Methylnaphthalene	<33		33	6.2	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2-Methylphenol	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
2-Nitrophenol	<330		330	79	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
3 & 4 Methylphenol	<170		170	56	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
3,3'-Dichlorobenzidine	<170		170	47	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
4,6-Dinitro-2-methylphenol	<330		330	270	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
4-Nitroaniline	<330		330	140	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Acenaphthene	<33		33	6.0	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Acenaphthylene	<33		33	4.4	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Anthracene	<33		33	5.6	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
<b>Benzo[a]anthracene</b>	<b>7.9 J</b>		33	4.5	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
<b>Benzo[a]pyrene</b>	<b>8.4 J</b>		33	6.5	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Benzo[b]fluoranthene	<33		33	7.2	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
<b>Benzo[g,h,i]perylene</b>	<b>13 J</b>		33	11	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Benzo[k]fluoranthene	<33		33	9.9	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Bis(2-ethylhexyl) phthalate	<170		170	61	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Butyl benzyl phthalate	<170		170	64	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Carbazole	<170		170	87	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Chrysene	<33		33	9.2	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Dibenz(a,h)anthracene	<33		33	6.5	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Dibenzofuran	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
<b>Fluoranthene</b>	<b>8.3 J</b>		33	6.2	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Fluorene	<33		33	4.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Hexachlorobenzene	<68		68	7.8	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Hexachlorocyclopentadiene	<680		680	190	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Hexachloroethane	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514**

**Lab Sample ID: 500-76271-12**

**Date Collected: 05/05/14 12:40**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 94.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<33		33	8.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Isophorone	<170		170	38	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Naphthalene	<33		33	5.2	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Nitrobenzene	<33		33	8.4	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
N-Nitrosodi-n-propylamine	<170		170	41	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
<b>Phenanthrene</b>	<b>28</b>	<b>J</b>	33	4.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
Phenol	<170		170	75	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1
<b>Pyrene</b>	<b>26</b>	<b>J</b>	33	6.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137	05/14/14 07:32	05/19/14 18:11	1
2-Fluorobiphenyl	64		25 - 119	05/14/14 07:32	05/19/14 18:11	1
2-Fluorophenol	67		25 - 110	05/14/14 07:32	05/19/14 18:11	1
Nitrobenzene-d5	59		25 - 115	05/14/14 07:32	05/19/14 18:11	1
Phenol-d5	73		31 - 110	05/14/14 07:32	05/19/14 18:11	1
Terphenyl-d14	74		36 - 134	05/14/14 07:32	05/19/14 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
Barium	<0.50		0.50	0.050	mg/L		05/13/14 07:30	05/14/14 01:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 01:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 01:33	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
<b>Iron</b>	<b>3.8</b>		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 01:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 01:33	1
<b>Manganese</b>	<b>0.62</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:33	1
<b>Zinc</b>	<b>0.036</b>	<b>J B</b>	0.10	0.020	mg/L		05/13/14 07:30	05/14/14 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1
Barium	<0.50		0.50	0.050	mg/L		05/09/14 09:30	05/14/14 04:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 04:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 04:50	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1
Copper	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1
Iron	<0.20		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 04:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 04:50	1
Manganese	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514**

**Lab Sample ID: 500-76271-12**

Date Collected: 05/05/14 12:40

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:50	1
<b>Zinc</b>	<b>0.030</b>	<b>J</b>	0.10	0.020	mg/L		05/09/14 09:30	05/14/14 04:50	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.1		5.1	2.0	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Arsenic</b>	<b>1.1</b>	<b>J</b>	2.5	0.50	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Barium</b>	<b>2.0</b>	<b>J</b>	2.5	0.27	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Beryllium</b>	<b>0.23</b>	<b>J</b>	1.0	0.20	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Cadmium</b>	<b>0.075</b>	<b>J</b>	0.51	0.064	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Calcium</b>	<b>170000</b>		100	27	mg/Kg	☼	05/08/14 08:10	05/14/14 12:47	10
<b>Chromium</b>	<b>2.9</b>		2.5	0.29	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Cobalt</b>	<b>0.88</b>	<b>J</b>	1.3	0.25	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Copper</b>	<b>2.1</b>	<b>J</b>	2.5	0.51	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Iron</b>	<b>1600</b>		51	21	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Lead</b>	<b>0.96</b>	<b>J</b>	1.3	0.38	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Magnesium</b>	<b>100000</b>		25	5.2	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Manganese</b>	<b>120</b>		5.1	1.0	mg/Kg	☼	05/08/14 08:10	05/14/14 12:47	10
<b>Nickel</b>	<b>2.1</b>	<b>J</b>	2.5	0.51	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Potassium</b>	<b>1200</b>		25	1.5	mg/Kg	☼	05/08/14 08:10	05/09/14 06:13	1
Selenium	<2.5		2.5	0.90	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
Silver	<1.3		1.3	0.092	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Sodium</b>	<b>570</b>		51	6.8	mg/Kg	☼	05/08/14 08:10	05/09/14 06:13	1
Thallium	<2.5		2.5	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Vanadium</b>	<b>3.4</b>		1.3	0.19	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5
<b>Zinc</b>	<b>3.2</b>	<b>J</b>	5.1	1.0	mg/Kg	☼	05/08/14 08:10	05/09/14 17:53	5

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:13	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	6.5	ug/Kg	☼	05/12/14 15:00	05/13/14 11:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.60</b>		0.200	0.200	SU			05/16/14 08:04	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514D**

**Lab Sample ID: 500-76271-13**

**Date Collected: 05/05/14 12:40**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 94.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	*		05/07/14 19:12	1
Benzene	<5.3		5.3	0.72	ug/Kg	*		05/07/14 19:12	1
Bromodichloromethane	<5.3		5.3	0.91	ug/Kg	*		05/07/14 19:12	1
Bromoform	<5.3		5.3	1.2	ug/Kg	*		05/07/14 19:12	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	*		05/07/14 19:12	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	*		05/07/14 19:12	1
Carbon tetrachloride	<5.3		5.3	0.96	ug/Kg	*		05/07/14 19:12	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	*		05/07/14 19:12	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	*		05/07/14 19:12	1
Chloroform	<5.3		5.3	0.61	ug/Kg	*		05/07/14 19:12	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	*		05/07/14 19:12	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	*		05/07/14 19:12	1
cis-1,3-Dichloropropene	<5.3		5.3	0.69	ug/Kg	*		05/07/14 19:12	1
Dibromochloromethane	<5.3		5.3	0.92	ug/Kg	*		05/07/14 19:12	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	*		05/07/14 19:12	1
1,2-Dichloroethane	<5.3		5.3	0.78	ug/Kg	*		05/07/14 19:12	1
1,1,1-Dichloroethene	<5.3		5.3	0.85	ug/Kg	*		05/07/14 19:12	1
1,2-Dichloropropane	<5.3		5.3	0.80	ug/Kg	*		05/07/14 19:12	1
1,3-Dichloropropene, Total	<5.3		5.3	0.69	ug/Kg	*		05/07/14 19:12	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	*		05/07/14 19:12	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	*		05/07/14 19:12	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	*		05/07/14 19:12	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	*		05/07/14 19:12	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	*		05/07/14 19:12	1
Methyl tert-butyl ether	<5.3		5.3	0.87	ug/Kg	*		05/07/14 19:12	1
Styrene	<5.3		5.3	0.69	ug/Kg	*		05/07/14 19:12	1
1,1,1,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	*		05/07/14 19:12	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	*		05/07/14 19:12	1
Toluene	<5.3		5.3	0.74	ug/Kg	*		05/07/14 19:12	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	*		05/07/14 19:12	1
trans-1,3-Dichloropropene	<5.3		5.3	0.95	ug/Kg	*		05/07/14 19:12	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	*		05/07/14 19:12	1
1,1,2-Trichloroethane	<5.3		5.3	0.72	ug/Kg	*		05/07/14 19:12	1
Trichloroethene	<5.3		5.3	0.87	ug/Kg	*		05/07/14 19:12	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	*		05/07/14 19:12	1
Xylenes, Total	<11		11	0.48	ug/Kg	*		05/07/14 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122		05/07/14 19:12	1
Dibromofluoromethane	110		75 - 120		05/07/14 19:12	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		05/07/14 19:12	1
Toluene-d8 (Surr)	109		75 - 122		05/07/14 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	*	05/14/14 07:32	05/19/14 18:32	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	*	05/14/14 07:32	05/19/14 18:32	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	*	05/14/14 07:32	05/19/14 18:32	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	*	05/14/14 07:32	05/19/14 18:32	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	*	05/14/14 07:32	05/19/14 18:32	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514D**

**Lab Sample ID: 500-76271-13**

**Date Collected: 05/05/14 12:40**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 94.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	78	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2-Methylphenol	<170		170	55	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
3,3'-Dichlorobenzidine	<170		170	48	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
4,6-Dinitro-2-methylphenol	<340		340	270	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
4-Nitrophenol	<690		690	320	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Acenaphthylene	<34		34	4.5	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Anthracene	<34		34	5.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Benzo[a]anthracene	<34		34	4.6	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Benzo[a]pyrene	<34		34	6.6	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Benzo[b]fluoranthene	<34		34	7.4	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Benzo[g,h,i]perylene	<34		34	11	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Benzo[k]fluoranthene	<34		34	10	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Bis(2-ethylhexyl) phthalate	<170		170	62	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Butyl benzyl phthalate	<170		170	65	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Carbazole	<170		170	88	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Chrysene	<34		34	9.3	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Dibenz(a,h)anthracene	<34		34	6.6	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Dibenzofuran	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Fluoranthene	<34		34	6.3	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Fluorene	<34		34	4.8	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Hexachlorobenzene	<69		69	7.9	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Hexachloroethane	<170		170	52	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514D**

**Lab Sample ID: 500-76271-13**

Date Collected: 05/05/14 12:40

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<34		34	8.8	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Isophorone	<170		170	38	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Naphthalene	<34		34	5.3	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
N-Nitrosodi-n-propylamine	<170		170	42	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Phenanthrene	<34		34	4.8	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Phenol	<170		170	76	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
<b>Pyrene</b>	<b>8.0</b>	<b>J</b>	34	6.8	ug/Kg	☼	05/14/14 07:32	05/19/14 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		35 - 137				05/14/14 07:32	05/19/14 18:32	1
2-Fluorobiphenyl	60		25 - 119				05/14/14 07:32	05/19/14 18:32	1
2-Fluorophenol	59		25 - 110				05/14/14 07:32	05/19/14 18:32	1
Nitrobenzene-d5	55		25 - 115				05/14/14 07:32	05/19/14 18:32	1
Phenol-d5	69		31 - 110				05/14/14 07:32	05/19/14 18:32	1
Terphenyl-d14	67		36 - 134				05/14/14 07:32	05/19/14 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
Barium	<0.50		0.50	0.050	mg/L		05/13/14 07:30	05/14/14 01:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 01:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 01:40	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
<b>Iron</b>	<b>3.6</b>		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 01:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 01:40	1
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:40	1
<b>Zinc</b>	<b>0.042</b>	<b>J B</b>	0.10	0.020	mg/L		05/13/14 07:30	05/14/14 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1
Barium	<0.50		0.50	0.050	mg/L		05/09/14 09:30	05/14/14 04:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 04:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 04:56	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1
<b>Copper</b>	<b>0.050</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1
Iron	<0.20		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 04:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 04:56	1
Manganese	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1
Nickel	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(0-6)-050514D**

**Lab Sample ID: 500-76271-13**

Date Collected: 05/05/14 12:40

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:56	1
<b>Zinc</b>	<b>0.059</b>	<b>J</b>	0.10	0.020	mg/L		05/09/14 09:30	05/14/14 04:56	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.0		5.0	2.0	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
Arsenic	<2.5		2.5	0.50	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Barium</b>	<b>1.8</b>	<b>J</b>	2.5	0.27	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
Beryllium	<1.0		1.0	0.20	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
Cadmium	<0.50		0.50	0.063	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Calcium</b>	<b>150000</b>		50	13	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Chromium</b>	<b>2.6</b>		2.5	0.29	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Cobalt</b>	<b>0.98</b>	<b>J</b>	1.2	0.25	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Copper</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Iron</b>	<b>1400</b>		50	20	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Lead</b>	<b>1.0</b>	<b>J</b>	1.2	0.37	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Magnesium</b>	<b>88000</b>		25	5.1	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Manganese</b>	<b>85</b>		2.5	0.50	mg/Kg	⊛	05/08/14 08:10	05/14/14 12:51	5
<b>Nickel</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Potassium</b>	<b>910</b>		25	1.5	mg/Kg	⊛	05/08/14 08:10	05/09/14 06:20	1
Selenium	<2.5		2.5	0.88	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
Silver	<1.2		1.2	0.090	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Sodium</b>	<b>540</b>		50	6.7	mg/Kg	⊛	05/08/14 08:10	05/09/14 06:20	1
Thallium	<2.5		2.5	1.1	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Vanadium</b>	<b>3.1</b>		1.2	0.18	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5
<b>Zinc</b>	<b>4.3</b>	<b>J</b>	5.0	1.0	mg/Kg	⊛	05/08/14 08:10	05/09/14 17:58	5

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:15	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	6.8	ug/Kg	⊛	05/12/14 15:00	05/13/14 12:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.78</b>		0.200	0.200	SU			05/16/14 08:04	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(6-12)-050514**

**Lab Sample ID: 500-76271-14**

Date Collected: 05/05/14 12:50

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 93.4

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.4		5.4	2.3	ug/Kg	*		05/09/14 14:59	1
Benzene	<5.4		5.4	0.73	ug/Kg	*		05/09/14 14:59	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	*		05/09/14 14:59	1
Bromoform	<5.4		5.4	1.2	ug/Kg	*		05/09/14 14:59	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	*		05/09/14 14:59	1
Carbon disulfide	<5.4		5.4	0.80	ug/Kg	*		05/09/14 14:59	1
Carbon tetrachloride	<5.4		5.4	0.97	ug/Kg	*		05/09/14 14:59	1
Chlorobenzene	<5.4		5.4	0.54	ug/Kg	*		05/09/14 14:59	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	*		05/09/14 14:59	1
Chloroform	<5.4		5.4	0.62	ug/Kg	*		05/09/14 14:59	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	*		05/09/14 14:59	1
cis-1,2-Dichloroethene	<5.4		5.4	0.76	ug/Kg	*		05/09/14 14:59	1
cis-1,3-Dichloropropene	<5.4		5.4	0.70	ug/Kg	*		05/09/14 14:59	1
Dibromochloromethane	<5.4		5.4	0.93	ug/Kg	*		05/09/14 14:59	1
1,1-Dichloroethane	<5.4		5.4	0.85	ug/Kg	*		05/09/14 14:59	1
1,2-Dichloroethane	<5.4		5.4	0.79	ug/Kg	*		05/09/14 14:59	1
1,1-Dichloroethene	<5.4		5.4	0.86	ug/Kg	*		05/09/14 14:59	1
1,2-Dichloropropane	<5.4		5.4	0.81	ug/Kg	*		05/09/14 14:59	1
1,3-Dichloropropene, Total	<5.4		5.4	0.70	ug/Kg	*		05/09/14 14:59	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	*		05/09/14 14:59	1
2-Hexanone	<5.4		5.4	1.5	ug/Kg	*		05/09/14 14:59	1
Methylene Chloride	<5.4		5.4	1.4	ug/Kg	*		05/09/14 14:59	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	*		05/09/14 14:59	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	*		05/09/14 14:59	1
Methyl tert-butyl ether	<5.4		5.4	0.88	ug/Kg	*		05/09/14 14:59	1
Styrene	<5.4		5.4	0.70	ug/Kg	*		05/09/14 14:59	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	*		05/09/14 14:59	1
<b>Tetrachloroethene</b>	<b>7.3</b>		5.4	0.82	ug/Kg	*		05/09/14 14:59	1
Toluene	<5.4		5.4	0.75	ug/Kg	*		05/09/14 14:59	1
trans-1,2-Dichloroethene	<5.4		5.4	0.74	ug/Kg	*		05/09/14 14:59	1
trans-1,3-Dichloropropene	<5.4		5.4	0.96	ug/Kg	*		05/09/14 14:59	1
1,1,1-Trichloroethane	<5.4		5.4	0.80	ug/Kg	*		05/09/14 14:59	1
1,1,2-Trichloroethane	<5.4		5.4	0.73	ug/Kg	*		05/09/14 14:59	1
Trichloroethene	<5.4		5.4	0.88	ug/Kg	*		05/09/14 14:59	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	*		05/09/14 14:59	1
Xylenes, Total	<11		11	0.48	ug/Kg	*		05/09/14 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 122		05/09/14 14:59	1
Dibromofluoromethane	115		75 - 120		05/09/14 14:59	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		05/09/14 14:59	1
Toluene-d8 (Surr)	110		75 - 122		05/09/14 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	*	05/14/14 07:32	05/19/14 18:53	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	*	05/14/14 07:32	05/19/14 18:53	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	*	05/14/14 07:32	05/19/14 18:53	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	*	05/14/14 07:32	05/19/14 18:53	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	*	05/14/14 07:32	05/19/14 18:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(6-12)-050514**

**Lab Sample ID: 500-76271-14**

Date Collected: 05/05/14 12:50

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	77	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2,4-Dinitrophenol	<680		680	600	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>2-Methylnaphthalene</b>	<b>14</b>	<b>J</b>	34	6.2	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2-Methylphenol	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
2-Nitrophenol	<340		340	80	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
3,3'-Dichlorobenzidine	<170		170	47	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
4,6-Dinitro-2-methylphenol	<340		340	270	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Acenaphthene</b>	<b>13</b>	<b>J</b>	34	6.1	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Acenaphthylene</b>	<b>7.8</b>	<b>J</b>	34	4.5	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Anthracene</b>	<b>55</b>		34	5.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Benzo[a]anthracene</b>	<b>110</b>		34	4.6	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Benzo[a]pyrene</b>	<b>88</b>		34	6.6	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>		34	7.3	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Benzo[g,h,i]perylene</b>	<b>30</b>	<b>J</b>	34	11	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Benzo[k]fluoranthene</b>	<b>71</b>		34	10	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Bis(2-ethylhexyl) phthalate	<170		170	62	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Butyl benzyl phthalate	<170		170	65	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Carbazole	<170		170	88	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Chrysene</b>	<b>120</b>		34	9.3	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Dibenz(a,h)anthracene</b>	<b>9.6</b>	<b>J</b>	34	6.6	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Dibenzofuran	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Fluoranthene</b>	<b>250</b>		34	6.3	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Fluorene</b>	<b>13</b>	<b>J</b>	34	4.8	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Hexachlorobenzene	<68		68	7.9	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Hexachlorocyclopentadiene	<680		680	200	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Hexachloroethane	<170		170	52	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(6-12)-050514**

**Lab Sample ID: 500-76271-14**

Date Collected: 05/05/14 12:50

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>34</b>		34	8.8	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Isophorone	<170		170	38	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Naphthalene</b>	<b>16</b>	<b>J</b>	34	5.2	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
N-Nitrosodi-n-propylamine	<170		170	41	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Phenanthrene</b>	<b>200</b>		34	4.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Phenol	<170		170	75	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
<b>Pyrene</b>	<b>180</b>		34	6.7	ug/Kg	☼	05/14/14 07:32	05/19/14 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		35 - 137				05/14/14 07:32	05/16/14 18:55	5
2,4,6-Tribromophenol	71		35 - 137				05/14/14 07:32	05/19/14 18:53	1
2-Fluorobiphenyl	56		25 - 119				05/14/14 07:32	05/16/14 18:55	5
2-Fluorobiphenyl	59		25 - 119				05/14/14 07:32	05/19/14 18:53	1
2-Fluorophenol	62		25 - 110				05/14/14 07:32	05/16/14 18:55	5
2-Fluorophenol	59		25 - 110				05/14/14 07:32	05/19/14 18:53	1
Nitrobenzene-d5	36		25 - 115				05/14/14 07:32	05/16/14 18:55	5
Nitrobenzene-d5	54		25 - 115				05/14/14 07:32	05/19/14 18:53	1
Phenol-d5	55		31 - 110				05/14/14 07:32	05/16/14 18:55	5
Phenol-d5	65		31 - 110				05/14/14 07:32	05/19/14 18:53	1
Terphenyl-d14	67		36 - 134				05/14/14 07:32	05/16/14 18:55	5
Terphenyl-d14	56		36 - 134				05/14/14 07:32	05/19/14 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 02:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 02:01	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 02:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
<b>Copper</b>	<b>0.057</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 02:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 02:01	1
<b>Manganese</b>	<b>3.2</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:01	1
<b>Zinc</b>	<b>1.7</b>		0.10	0.020	mg/L		05/13/14 07:30	05/14/14 02:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1
Barium	<0.50		0.50	0.050	mg/L		05/09/14 09:30	05/14/14 05:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 05:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 05:02	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-4(6-12)-050514**

**Lab Sample ID: 500-76271-14**

Date Collected: 05/05/14 12:50

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.019	J	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1
Iron	<0.20		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 05:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 05:02	1
Manganese	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1
Nickel	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:02	1
Zinc	0.050	J	0.10	0.020	mg/L		05/09/14 09:30	05/14/14 05:02	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.40	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Arsenic	2.0		0.49	0.098	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Barium	7.2		0.49	0.053	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Beryllium	0.14	J	0.20	0.039	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Cadmium	0.21		0.098	0.013	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Calcium	63000		98	27	mg/Kg	☼	05/08/14 08:10	05/09/14 18:03	10
Chromium	2.2		0.49	0.057	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Cobalt	0.91		0.25	0.049	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Copper	30		0.49	0.098	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Iron	3100		9.8	4.0	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Lead	19		0.25	0.073	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Magnesium	33000		4.9	1.0	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Manganese	100		0.49	0.098	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Nickel	2.6		0.49	0.098	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Potassium	400		25	1.5	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Selenium	<0.49		0.49	0.17	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Silver	0.39	B	0.25	0.018	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Sodium	1100		49	6.6	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Thallium	<0.49		0.49	0.21	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Vanadium	3.2		0.25	0.036	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1
Zinc	78		0.98	0.20	mg/Kg	☼	05/08/14 08:10	05/09/14 06:26	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:22	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.7	J	17	6.8	ug/Kg	☼	05/12/14 15:00	05/13/14 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			05/16/14 08:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(0-6)-050514**

**Lab Sample ID: 500-76271-15**

Date Collected: 05/05/14 13:35

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 94.7

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	*		05/08/14 15:24	1
Benzene	<5.3		5.3	0.72	ug/Kg	*		05/08/14 15:24	1
Bromodichloromethane	<5.3		5.3	0.91	ug/Kg	*		05/08/14 15:24	1
Bromoform	<5.3		5.3	1.2	ug/Kg	*		05/08/14 15:24	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	*		05/08/14 15:24	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	*		05/08/14 15:24	1
Carbon tetrachloride	<5.3		5.3	0.96	ug/Kg	*		05/08/14 15:24	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	*		05/08/14 15:24	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	*		05/08/14 15:24	1
Chloroform	<5.3		5.3	0.61	ug/Kg	*		05/08/14 15:24	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	*		05/08/14 15:24	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	*		05/08/14 15:24	1
cis-1,3-Dichloropropene	<5.3		5.3	0.69	ug/Kg	*		05/08/14 15:24	1
Dibromochloromethane	<5.3		5.3	0.92	ug/Kg	*		05/08/14 15:24	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	*		05/08/14 15:24	1
1,2-Dichloroethane	<5.3		5.3	0.78	ug/Kg	*		05/08/14 15:24	1
1,1-Dichloroethene	<5.3		5.3	0.85	ug/Kg	*		05/08/14 15:24	1
1,2-Dichloropropane	<5.3		5.3	0.80	ug/Kg	*		05/08/14 15:24	1
1,3-Dichloropropene, Total	<5.3		5.3	0.69	ug/Kg	*		05/08/14 15:24	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	*		05/08/14 15:24	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	*		05/08/14 15:24	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	*		05/08/14 15:24	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	*		05/08/14 15:24	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	*		05/08/14 15:24	1
Methyl tert-butyl ether	<5.3		5.3	0.87	ug/Kg	*		05/08/14 15:24	1
Styrene	<5.3		5.3	0.69	ug/Kg	*		05/08/14 15:24	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	*		05/08/14 15:24	1
<b>Tetrachloroethene</b>	<b>18</b>		5.3	0.81	ug/Kg	*		05/08/14 15:24	1
Toluene	<5.3		5.3	0.74	ug/Kg	*		05/08/14 15:24	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	*		05/08/14 15:24	1
trans-1,3-Dichloropropene	<5.3		5.3	0.95	ug/Kg	*		05/08/14 15:24	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	*		05/08/14 15:24	1
1,1,2-Trichloroethane	<5.3		5.3	0.72	ug/Kg	*		05/08/14 15:24	1
Trichloroethene	<5.3		5.3	0.87	ug/Kg	*		05/08/14 15:24	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	*		05/08/14 15:24	1
Xylenes, Total	<11		11	0.48	ug/Kg	*		05/08/14 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 122		05/08/14 15:24	1
Dibromofluoromethane	110		75 - 120		05/08/14 15:24	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		05/08/14 15:24	1
Toluene-d8 (Surr)	107		75 - 122		05/08/14 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	*	05/14/14 07:32	05/19/14 19:14	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	*	05/14/14 07:32	05/19/14 19:14	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	*	05/14/14 07:32	05/19/14 19:14	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	*	05/14/14 07:32	05/19/14 19:14	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	*	05/14/14 07:32	05/19/14 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(0-6)-050514**

**Lab Sample ID: 500-76271-15**

Date Collected: 05/05/14 13:35

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	77	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2,4-Dichlorophenol	<340		340	80	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2,4-Dinitrophenol	<680		680	590	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2,6-Dinitrotoluene	<170		170	66	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>2-Methylnaphthalene</b>	<b>13</b>	<b>J</b>	34	6.2	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2-Methylphenol	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
2-Nitrophenol	<340		340	80	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
3 & 4 Methylphenol	<170		170	56	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
3,3'-Dichlorobenzidine	<170		170	47	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
3-Nitroaniline	<340		340	100	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
4,6-Dinitro-2-methylphenol	<340		340	270	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
4-Chloro-3-methylphenol	<340		340	110	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Acenaphthene</b>	<b>10</b>	<b>J</b>	34	6.1	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Acenaphthylene</b>	<b>7.8</b>	<b>J</b>	34	4.4	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Anthracene</b>	<b>34</b>		34	5.6	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Benzo[a]anthracene</b>	<b>60</b>		34	4.5	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Benzo[a]pyrene</b>	<b>83</b>		34	6.5	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Benzo[b]fluoranthene</b>	<b>74</b>		34	7.3	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Benzo[g,h,i]perylene</b>	<b>77</b>		34	11	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Benzo[k]fluoranthene</b>	<b>75</b>		34	9.9	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>150</b>	<b>J</b>	170	62	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Butyl benzyl phthalate	<170		170	64	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Carbazole	<170		170	87	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Chrysene</b>	<b>150</b>		34	9.2	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Dibenz(a,h)anthracene	<34		34	6.5	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Dibenzofuran	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Fluoranthene</b>	<b>190</b>		34	6.3	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Fluorene	<34		34	4.7	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Hexachlorobenzene	<68		68	7.8	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Hexachlorocyclopentadiene	<680		680	190	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Hexachloroethane	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(0-6)-050514**

**Lab Sample ID: 500-76271-15**

Date Collected: 05/05/14 13:35

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>42</b>		34	8.7	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Isophorone	<170		170	38	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Naphthalene</b>	<b>15</b>	<b>J</b>	34	5.2	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Nitrobenzene	<34		34	8.4	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
N-Nitrosodi-n-propylamine	<170		170	41	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Phenanthrene</b>	<b>130</b>		34	4.7	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
Phenol	<170		170	75	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Pyrene</b>	<b>180</b>		34	6.7	ug/Kg	☼	05/14/14 07:32	05/19/14 19:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	69		35 - 137				05/14/14 07:32	05/19/14 19:14	1
2-Fluorobiphenyl	58		25 - 119				05/14/14 07:32	05/19/14 19:14	1
2-Fluorophenol	61		25 - 110				05/14/14 07:32	05/19/14 19:14	1
Nitrobenzene-d5	56		25 - 115				05/14/14 07:32	05/19/14 19:14	1
Phenol-d5	65		31 - 110				05/14/14 07:32	05/19/14 19:14	1
Terphenyl-d14	69		36 - 134				05/14/14 07:32	05/19/14 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 02:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 02:07	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 02:07	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
<b>Copper</b>	<b>0.16</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 02:07	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 02:07	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:07	1
<b>Zinc</b>	<b>1.4</b>		0.10	0.020	mg/L		05/13/14 07:30	05/14/14 02:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1
<b>Barium</b>	<b>0.059</b>	<b>J</b>	0.50	0.050	mg/L		05/09/14 09:30	05/14/14 05:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 05:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 05:08	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1
<b>Iron</b>	<b>2.3</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 05:08	1
<b>Lead</b>	<b>0.056</b>		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 05:08	1
<b>Manganese</b>	<b>0.040</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1
Nickel	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(0-6)-050514**

**Lab Sample ID: 500-76271-15**

Date Collected: 05/05/14 13:35

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:08	1
Zinc	0.32		0.10	0.020	mg/L		05/09/14 09:30	05/14/14 05:08	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.39	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Arsenic	3.0		0.49	0.097	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Barium	51		0.49	0.052	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Beryllium	0.12	J	0.20	0.039	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Cadmium	0.21		0.098	0.012	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Calcium	21000		9.8	2.6	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Chromium	2.9		0.49	0.057	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Cobalt	1.2		0.24	0.049	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Copper	61		0.49	0.098	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Iron	4000		9.8	4.0	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Lead	60		0.24	0.073	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Magnesium	12000		4.9	1.0	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Manganese	63		0.49	0.098	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Nickel	3.6		0.49	0.098	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Potassium	280		24	1.5	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Selenium	<0.49		0.49	0.17	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Silver	0.83	B	0.24	0.018	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Sodium	70		49	6.5	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Thallium	<0.49		0.49	0.21	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Vanadium	4.2		0.24	0.036	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1
Zinc	150		0.98	0.20	mg/Kg	☼	05/08/14 08:10	05/09/14 06:32	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:24	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	27		17	6.7	ug/Kg	☼	05/12/14 15:00	05/13/14 12:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.200	0.200	SU			05/16/14 08:07	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(6-12)-050514**

**Lab Sample ID: 500-76271-16**

Date Collected: 05/05/14 13:40

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 90.3

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	☼		05/07/14 20:24	1
Benzene	<5.5		5.5	0.76	ug/Kg	☼		05/07/14 20:24	1
Bromodichloromethane	<5.5		5.5	0.95	ug/Kg	☼		05/07/14 20:24	1
Bromoform	<5.5		5.5	1.3	ug/Kg	☼		05/07/14 20:24	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	☼		05/07/14 20:24	1
Carbon disulfide	<5.5		5.5	0.83	ug/Kg	☼		05/07/14 20:24	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	☼		05/07/14 20:24	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	☼		05/07/14 20:24	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	☼		05/07/14 20:24	1
Chloroform	<5.5		5.5	0.64	ug/Kg	☼		05/07/14 20:24	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	☼		05/07/14 20:24	1
cis-1,2-Dichloroethene	<5.5		5.5	0.78	ug/Kg	☼		05/07/14 20:24	1
cis-1,3-Dichloropropene	<5.5		5.5	0.73	ug/Kg	☼		05/07/14 20:24	1
Dibromochloromethane	<5.5		5.5	0.96	ug/Kg	☼		05/07/14 20:24	1
1,1-Dichloroethane	<5.5		5.5	0.88	ug/Kg	☼		05/07/14 20:24	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		05/07/14 20:24	1
1,1-Dichloroethene	<5.5		5.5	0.90	ug/Kg	☼		05/07/14 20:24	1
1,2-Dichloropropane	<5.5		5.5	0.84	ug/Kg	☼		05/07/14 20:24	1
1,3-Dichloropropene, Total	<5.5		5.5	0.73	ug/Kg	☼		05/07/14 20:24	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	☼		05/07/14 20:24	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	☼		05/07/14 20:24	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	☼		05/07/14 20:24	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		05/07/14 20:24	1
methyl isobutyl ketone	<5.5		5.5	1.5	ug/Kg	☼		05/07/14 20:24	1
Methyl tert-butyl ether	<5.5		5.5	0.92	ug/Kg	☼		05/07/14 20:24	1
Styrene	<5.5		5.5	0.73	ug/Kg	☼		05/07/14 20:24	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	☼		05/07/14 20:24	1
<b>Tetrachloroethene</b>	<b>23</b>		5.5	0.85	ug/Kg	☼		05/07/14 20:24	1
Toluene	<5.5		5.5	0.78	ug/Kg	☼		05/07/14 20:24	1
trans-1,2-Dichloroethene	<5.5		5.5	0.76	ug/Kg	☼		05/07/14 20:24	1
trans-1,3-Dichloropropene	<5.5		5.5	0.99	ug/Kg	☼		05/07/14 20:24	1
<b>1,1,1-Trichloroethane</b>	<b>5.0 J</b>		5.5	0.83	ug/Kg	☼		05/07/14 20:24	1
1,1,2-Trichloroethane	<5.5		5.5	0.76	ug/Kg	☼		05/07/14 20:24	1
<b>Trichloroethene</b>	<b>10</b>		5.5	0.91	ug/Kg	☼		05/07/14 20:24	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	☼		05/07/14 20:24	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		05/07/14 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 122		05/07/14 20:24	1
Dibromofluoromethane	113		75 - 120		05/07/14 20:24	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		05/07/14 20:24	1
Toluene-d8 (Surr)	111		75 - 122		05/07/14 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(6-12)-050514**

**Lab Sample ID: 500-76271-16**

Date Collected: 05/05/14 13:40

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2-Methylphenol	<180		180	59	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Acenaphthene</b>	<b>13</b>	<b>J</b>	36	6.6	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Acenaphthylene</b>	<b>14</b>	<b>J</b>	36	4.8	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Anthracene</b>	<b>50</b>		36	6.1	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Benzo[a]anthracene</b>	<b>170</b>		36	4.9	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Benzo[a]pyrene</b>	<b>140</b>		36	7.1	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Benzo[b]fluoranthene</b>	<b>200</b>		36	7.9	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Benzo[g,h,i]perylene</b>	<b>100</b>		36	12	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Benzo[k]fluoranthene</b>	<b>76</b>		36	11	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Carbazole	<180		180	94	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Chrysene</b>	<b>170</b>		36	10	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Dibenz(a,h)anthracene</b>	<b>32</b>	<b>J</b>	36	7.1	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Dibenzofuran	<180		180	43	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Fluoranthene</b>	<b>350</b>		36	6.8	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Fluorene	<36		36	5.1	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Hexachloroethane	<180		180	56	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(6-12)-050514**

**Lab Sample ID: 500-76271-16**

Date Collected: 05/05/14 13:40

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>85</b>		36	9.5	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Isophorone	<180		180	41	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Naphthalene</b>	<b>11</b>	<b>J</b>	36	5.6	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Phenanthrene</b>	<b>220</b>		36	5.1	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
Phenol	<180		180	81	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Pyrene</b>	<b>320</b>		36	7.3	ug/Kg	☼	05/14/14 07:32	05/16/14 19:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	65		35 - 137				05/14/14 07:32	05/16/14 19:37	1
2-Fluorobiphenyl	52		25 - 119				05/14/14 07:32	05/16/14 19:37	1
2-Fluorophenol	51		25 - 110				05/14/14 07:32	05/16/14 19:37	1
Nitrobenzene-d5	42		25 - 115				05/14/14 07:32	05/16/14 19:37	1
Phenol-d5	52		31 - 110				05/14/14 07:32	05/16/14 19:37	1
Terphenyl-d14	66		36 - 134				05/14/14 07:32	05/16/14 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 02:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 02:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 02:13	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
<b>Copper</b>	<b>0.044</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 02:13	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 02:13	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:13	1
<b>Zinc</b>	<b>0.34</b>		0.10	0.020	mg/L		05/13/14 07:30	05/14/14 02:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		05/09/14 09:30	05/14/14 05:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 05:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 05:15	1
<b>Chromium</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1
<b>Iron</b>	<b>11</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 05:15	1
<b>Lead</b>	<b>0.066</b>		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 05:15	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(6-12)-050514**

**Lab Sample ID: 500-76271-16**

Date Collected: 05/05/14 13:40

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:15	1
Zinc	0.17		0.10	0.020	mg/L		05/09/14 09:30	05/14/14 05:15	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Arsenic	3.3		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Barium	25		0.52	0.056	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Beryllium	0.18	J	0.21	0.042	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Cadmium	0.28		0.10	0.013	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Calcium	67000		100	28	mg/Kg	☼	05/08/14 08:10	05/09/14 18:07	10
Chromium	4.6		0.52	0.060	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Cobalt	2.2		0.26	0.052	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Copper	41		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Iron	5300		10	4.3	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Lead	38		0.26	0.077	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Magnesium	31000		5.2	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Manganese	150		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Nickel	5.8		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Potassium	750		26	1.6	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Silver	0.46	B	0.26	0.019	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Sodium	490		52	7.0	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Thallium	0.24	J	0.52	0.22	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Vanadium	6.5		0.26	0.038	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1
Zinc	51		1.0	0.21	mg/Kg	☼	05/08/14 08:10	05/09/14 06:38	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:27	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	150		18	7.2	ug/Kg	☼	05/12/14 15:00	05/13/14 12:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU			05/16/14 08:28	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(12-18)-050514**

**Lab Sample ID: 500-76271-17**

**Date Collected: 05/05/14 13:45**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 91.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	*		05/08/14 15:50	1
Benzene	<5.5		5.5	0.75	ug/Kg	*		05/08/14 15:50	1
Bromodichloromethane	<5.5		5.5	0.94	ug/Kg	*		05/08/14 15:50	1
Bromoform	<5.5		5.5	1.3	ug/Kg	*		05/08/14 15:50	1
Bromomethane	<5.5		5.5	1.6	ug/Kg	*		05/08/14 15:50	1
Carbon disulfide	<5.5		5.5	0.82	ug/Kg	*		05/08/14 15:50	1
Carbon tetrachloride	<5.5		5.5	0.99	ug/Kg	*		05/08/14 15:50	1
Chlorobenzene	<5.5		5.5	0.55	ug/Kg	*		05/08/14 15:50	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	*		05/08/14 15:50	1
Chloroform	<5.5		5.5	0.63	ug/Kg	*		05/08/14 15:50	1
Chloromethane	<5.5		5.5	1.1	ug/Kg	*		05/08/14 15:50	1
cis-1,2-Dichloroethene	<5.5		5.5	0.77	ug/Kg	*		05/08/14 15:50	1
cis-1,3-Dichloropropene	<5.5		5.5	0.72	ug/Kg	*		05/08/14 15:50	1
Dibromochloromethane	<5.5		5.5	0.95	ug/Kg	*		05/08/14 15:50	1
1,1-Dichloroethane	<5.5		5.5	0.86	ug/Kg	*		05/08/14 15:50	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	*		05/08/14 15:50	1
1,1-Dichloroethene	<5.5		5.5	0.88	ug/Kg	*		05/08/14 15:50	1
1,2-Dichloropropane	<5.5		5.5	0.83	ug/Kg	*		05/08/14 15:50	1
1,3-Dichloropropene, Total	<5.5		5.5	0.72	ug/Kg	*		05/08/14 15:50	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	*		05/08/14 15:50	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	*		05/08/14 15:50	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	*		05/08/14 15:50	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	*		05/08/14 15:50	1
methyl isobutyl ketone	<5.5		5.5	1.4	ug/Kg	*		05/08/14 15:50	1
Methyl tert-butyl ether	<5.5		5.5	0.90	ug/Kg	*		05/08/14 15:50	1
Styrene	<5.5		5.5	0.72	ug/Kg	*		05/08/14 15:50	1
1,1,1,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	*		05/08/14 15:50	1
<b>Tetrachloroethene</b>	<b>14</b>		5.5	0.83	ug/Kg	*		05/08/14 15:50	1
Toluene	<5.5		5.5	0.76	ug/Kg	*		05/08/14 15:50	1
trans-1,2-Dichloroethene	<5.5		5.5	0.75	ug/Kg	*		05/08/14 15:50	1
trans-1,3-Dichloropropene	<5.5		5.5	0.98	ug/Kg	*		05/08/14 15:50	1
1,1,1-Trichloroethane	<5.5		5.5	0.82	ug/Kg	*		05/08/14 15:50	1
1,1,2-Trichloroethane	<5.5		5.5	0.75	ug/Kg	*		05/08/14 15:50	1
<b>Trichloroethene</b>	<b>4.5 J</b>		5.5	0.90	ug/Kg	*		05/08/14 15:50	1
Vinyl chloride	<5.5		5.5	1.1	ug/Kg	*		05/08/14 15:50	1
Xylenes, Total	<11		11	0.49	ug/Kg	*		05/08/14 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 122		05/08/14 15:50	1
Dibromofluoromethane	108		75 - 120		05/08/14 15:50	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		05/08/14 15:50	1
Toluene-d8 (Surr)	109		75 - 122		05/08/14 15:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	*	05/14/14 07:32	05/16/14 19:58	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	*	05/14/14 07:32	05/16/14 19:58	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	*	05/14/14 07:32	05/16/14 19:58	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	*	05/14/14 07:32	05/16/14 19:58	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	*	05/14/14 07:32	05/16/14 19:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(12-18)-050514**

**Lab Sample ID: 500-76271-17**

**Date Collected: 05/05/14 13:45**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 91.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2-Methylphenol	<180		180	57	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
4,6-Dinitro-2-methylphenol	<350		350	280	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Acenaphthylene</b>	<b>8.0</b>	<b>J</b>	35	4.6	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Anthracene</b>	<b>24</b>	<b>J</b>	35	5.9	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Benzo[a]anthracene</b>	<b>94</b>		35	4.7	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Benzo[a]pyrene</b>	<b>87</b>		35	6.8	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Benzo[b]fluoranthene</b>	<b>130</b>		35	7.6	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Benzo[g,h,i]perylene</b>	<b>66</b>		35	11	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Benzo[k]fluoranthene</b>	<b>55</b>		35	10	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>180</b>		180	64	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Carbazole	<180		180	91	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Chrysene</b>	<b>95</b>		35	9.6	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Dibenz(a,h)anthracene</b>	<b>22</b>	<b>J</b>	35	6.8	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Dibenzofuran	<180		180	41	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Fluoranthene</b>	<b>190</b>		35	6.5	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Fluorene	<35		35	5.0	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Hexachloroethane	<180		180	54	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(12-18)-050514**

**Lab Sample ID: 500-76271-17**

Date Collected: 05/05/14 13:45

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>50</b>		35	9.1	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Isophorone	<180		180	40	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Naphthalene</b>	<b>11</b>	<b>J</b>	35	5.4	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
N-Nitrosodi-n-propylamine	<180		180	43	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Phenanthrene</b>	<b>89</b>		35	4.9	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
Phenol	<180		180	78	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Pyrene</b>	<b>170</b>		35	7.0	ug/Kg	☼	05/14/14 07:32	05/16/14 19:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	80		35 - 137				05/14/14 07:32	05/16/14 19:58	1
2-Fluorobiphenyl	63		25 - 119				05/14/14 07:32	05/16/14 19:58	1
2-Fluorophenol	65		25 - 110				05/14/14 07:32	05/16/14 19:58	1
Nitrobenzene-d5	56		25 - 115				05/14/14 07:32	05/16/14 19:58	1
Phenol-d5	64		31 - 110				05/14/14 07:32	05/16/14 19:58	1
Terphenyl-d14	75		36 - 134				05/14/14 07:32	05/16/14 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 02:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 02:19	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 02:19	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 02:19	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 02:19	1
<b>Manganese</b>	<b>0.82</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:19	1
<b>Zinc</b>	<b>1.8</b>		0.10	0.020	mg/L		05/13/14 07:30	05/14/14 02:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1
<b>Barium</b>	<b>0.059</b>	<b>J</b>	0.50	0.050	mg/L		05/09/14 09:30	05/14/14 05:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 05:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 05:21	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1
<b>Iron</b>	<b>1.9</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 05:21	1
<b>Lead</b>	<b>0.050</b>		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 05:21	1
<b>Manganese</b>	<b>0.030</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1
Nickel	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(12-18)-050514**

**Lab Sample ID: 500-76271-17**

Date Collected: 05/05/14 13:45

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:21	1
Zinc	0.30		0.10	0.020	mg/L		05/09/14 09:30	05/14/14 05:21	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.42	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Arsenic	2.3		0.53	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Barium	7.0		0.53	0.056	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Beryllium	0.10	J	0.21	0.042	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Cadmium	0.20		0.11	0.013	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Calcium	8200		11	2.9	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Chromium	2.1		0.53	0.061	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Cobalt	0.97		0.26	0.053	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Copper	51		0.53	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Iron	3200		11	4.3	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Lead	31		0.26	0.079	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Magnesium	4300		5.3	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Manganese	48		0.53	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Nickel	2.9		0.53	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Potassium	170		26	1.6	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Silver	0.60	B	0.26	0.019	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Sodium	180		53	7.1	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Thallium	<0.53		0.53	0.22	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Vanadium	3.3		0.26	0.039	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1
Zinc	170		1.1	0.21	mg/Kg	☼	05/08/14 08:10	05/09/14 06:45	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:29	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	7.1	ug/Kg	☼	05/12/14 15:00	05/13/14 12:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU			05/16/14 08:48	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(18-24)-050514**

**Lab Sample ID: 500-76271-18**

**Date Collected: 05/05/14 13:50**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 85.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>20</b>		5.8	2.5	ug/Kg	☼		05/07/14 21:11	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		05/07/14 21:11	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		05/07/14 21:11	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		05/07/14 21:11	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		05/07/14 21:11	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		05/07/14 21:11	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		05/07/14 21:11	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		05/07/14 21:11	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		05/07/14 21:11	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		05/07/14 21:11	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		05/07/14 21:11	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		05/07/14 21:11	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		05/07/14 21:11	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		05/07/14 21:11	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		05/07/14 21:11	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		05/07/14 21:11	1
1,1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		05/07/14 21:11	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		05/07/14 21:11	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		05/07/14 21:11	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		05/07/14 21:11	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		05/07/14 21:11	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		05/07/14 21:11	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		05/07/14 21:11	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		05/07/14 21:11	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		05/07/14 21:11	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		05/07/14 21:11	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		05/07/14 21:11	1
<b>Tetrachloroethene</b>	<b>7.2</b>		5.8	0.89	ug/Kg	☼		05/07/14 21:11	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		05/07/14 21:11	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		05/07/14 21:11	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		05/07/14 21:11	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		05/07/14 21:11	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		05/07/14 21:11	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		05/07/14 21:11	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		05/07/14 21:11	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		05/07/14 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 122		05/07/14 21:11	1
Dibromofluoromethane	113		75 - 120		05/07/14 21:11	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134		05/07/14 21:11	1
Toluene-d8 (Surr)	111		75 - 122		05/07/14 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(18-24)-050514**

**Lab Sample ID: 500-76271-18**

**Date Collected: 05/05/14 13:50**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
<b>2-Methylnaphthalene</b>	<b>38</b>		38	7.0	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2-Methylphenol	<190		190	61	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Anthracene	<38		38	6.4	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
<b>Benzo[g,h,i]perylene</b>	<b>20 J</b>		38	12	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Carbazole	<190		190	98	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
<b>Chrysene</b>	<b>14 J</b>		38	10	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Dibenzofuran	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
<b>Fluoranthene</b>	<b>10 J</b>		38	7.1	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Fluorene	<38		38	5.3	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Hexachloroethane	<190		190	58	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(18-24)-050514**

**Lab Sample ID: 500-76271-18**

**Date Collected: 05/05/14 13:50**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Isophorone	<190		190	43	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Naphthalene	<38		38	5.9	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
<b>Phenanthrene</b>	<b>120</b>		38	5.3	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Phenol	<190		190	84	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
<b>Pyrene</b>	<b>18 J</b>		38	7.6	ug/Kg	☼	05/14/14 07:32	05/16/14 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		35 - 137				05/14/14 07:32	05/16/14 20:19	1
2-Fluorobiphenyl	60		25 - 119				05/14/14 07:32	05/16/14 20:19	1
2-Fluorophenol	58		25 - 110				05/14/14 07:32	05/16/14 20:19	1
Nitrobenzene-d5	52		25 - 115				05/14/14 07:32	05/16/14 20:19	1
Phenol-d5	62		31 - 110				05/14/14 07:32	05/16/14 20:19	1
Terphenyl-d14	66		36 - 134				05/14/14 07:32	05/16/14 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
<b>Barium</b>	<b>0.46 J</b>		0.50	0.050	mg/L		05/13/14 07:30	05/14/14 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 02:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 02:26	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
<b>Cobalt</b>	<b>0.023 J</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
Copper	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 02:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 02:26	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
<b>Nickel</b>	<b>0.061</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:26	1
Zinc	<0.10		0.10	0.020	mg/L		05/13/14 07:30	05/14/14 02:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1
<b>Barium</b>	<b>0.082 J</b>		0.50	0.050	mg/L		05/09/14 09:30	05/14/14 05:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 05:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 05:27	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1
<b>Copper</b>	<b>0.014 J</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1
Iron	<0.20		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 05:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 05:27	1
<b>Manganese</b>	<b>0.078</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1
Nickel	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(18-24)-050514**

**Lab Sample ID: 500-76271-18**

Date Collected: 05/05/14 13:50

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:27	1
Zinc	0.036	J	0.10	0.020	mg/L		05/09/14 09:30	05/14/14 05:27	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Arsenic	6.6		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Barium	26		0.54	0.058	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Beryllium	0.44		0.22	0.043	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Cadmium	0.53		0.11	0.014	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Calcium	38000		11	2.9	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Chromium	12		0.54	0.063	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Cobalt	8.7		0.27	0.054	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Copper	26		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Iron	16000		11	4.4	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Lead	11		0.27	0.080	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Magnesium	20000		5.4	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Manganese	280		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Nickel	24		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Potassium	2500		27	1.6	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Selenium	0.36	J	0.54	0.19	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Silver	0.086	J B	0.27	0.020	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Sodium	580		54	7.2	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Thallium	0.82		0.54	0.23	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Vanadium	13		0.27	0.040	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1
Zinc	34		1.1	0.22	mg/Kg	☼	05/08/14 08:10	05/09/14 06:51	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	J	0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:32	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		19	7.6	ug/Kg	☼	05/12/14 15:00	05/13/14 12:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			05/16/14 09:09	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(24-30)-050514**

**Lab Sample ID: 500-76271-19**

**Date Collected: 05/05/14 13:55**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 82.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		05/08/14 16:15	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		05/08/14 16:15	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		05/08/14 16:15	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		05/08/14 16:15	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		05/08/14 16:15	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		05/08/14 16:15	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		05/08/14 16:15	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		05/08/14 16:15	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		05/08/14 16:15	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		05/08/14 16:15	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		05/08/14 16:15	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		05/08/14 16:15	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		05/08/14 16:15	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		05/08/14 16:15	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		05/08/14 16:15	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		05/08/14 16:15	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		05/08/14 16:15	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	☼		05/08/14 16:15	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		05/08/14 16:15	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		05/08/14 16:15	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		05/08/14 16:15	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		05/08/14 16:15	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		05/08/14 16:15	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		05/08/14 16:15	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	☼		05/08/14 16:15	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		05/08/14 16:15	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		05/08/14 16:15	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		05/08/14 16:15	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		05/08/14 16:15	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		05/08/14 16:15	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		05/08/14 16:15	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		05/08/14 16:15	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		05/08/14 16:15	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		05/08/14 16:15	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		05/08/14 16:15	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		05/08/14 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 122		05/08/14 16:15	1
Dibromofluoromethane	111		75 - 120		05/08/14 16:15	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		05/08/14 16:15	1
Toluene-d8 (Surr)	109		75 - 122		05/08/14 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(24-30)-050514**

**Lab Sample ID: 500-76271-19**

**Date Collected: 05/05/14 13:55**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
<b>2-Methylnaphthalene</b>	<b>30</b>	<b>J</b>	38	7.1	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2-Methylphenol	<190		190	62	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Acenaphthene	<38		38	7.0	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Anthracene	<38		38	6.5	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Benzo[b]fluoranthene	<38		38	8.4	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
<b>Benzo[g,h,i]perylene</b>	<b>13</b>	<b>J</b>	38	12	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Carbazole	<190		190	100	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Chrysene	<38		38	11	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Dibenzofuran	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Fluorene	<38		38	5.4	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Hexachloroethane	<190		190	59	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(24-30)-050514**

**Lab Sample ID: 500-76271-19**

Date Collected: 05/05/14 13:55

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Isophorone	<190		190	43	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
<b>Naphthalene</b>	<b>24</b>	<b>J</b>	38	6.0	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Nitrobenzene	<38		38	9.7	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
<b>Phenanthrene</b>	<b>88</b>		38	5.4	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Phenol	<190		190	86	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
<b>Pyrene</b>	<b>12</b>	<b>J</b>	38	7.7	ug/Kg	☼	05/14/14 07:32	05/16/14 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		35 - 137				05/14/14 07:32	05/16/14 20:40	1
2-Fluorobiphenyl	44		25 - 119				05/14/14 07:32	05/16/14 20:40	1
2-Fluorophenol	45		25 - 110				05/14/14 07:32	05/16/14 20:40	1
Nitrobenzene-d5	34		25 - 115				05/14/14 07:32	05/16/14 20:40	1
Phenol-d5	45		31 - 110				05/14/14 07:32	05/16/14 20:40	1
Terphenyl-d14	49		36 - 134				05/14/14 07:32	05/16/14 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
<b>Barium</b>	<b>0.51</b>		0.50	0.050	mg/L		05/13/14 07:30	05/14/14 02:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 02:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 02:32	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
<b>Cobalt</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
Copper	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 02:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 02:32	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
<b>Nickel</b>	<b>0.059</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 02:32	1
Zinc	<0.10		0.10	0.020	mg/L		05/13/14 07:30	05/14/14 02:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1
<b>Barium</b>	<b>0.074</b>	<b>J</b>	0.50	0.050	mg/L		05/09/14 09:30	05/14/14 05:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 05:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 05:33	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1
<b>Copper</b>	<b>0.032</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 05:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 05:33	1
<b>Manganese</b>	<b>0.076</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1
Nickel	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: IR-1(24-30)-050514**

**Lab Sample ID: 500-76271-19**

Date Collected: 05/05/14 13:55

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 05:33	1
Zinc	0.043	J	0.10	0.020	mg/L		05/09/14 09:30	05/14/14 05:33	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Arsenic	8.0		0.57	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Barium	33		0.57	0.061	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Beryllium	0.50		0.23	0.045	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Cadmium	0.62		0.11	0.014	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Calcium	37000		11	3.1	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Chromium	14		0.57	0.066	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Cobalt	9.4		0.28	0.057	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Copper	27		0.57	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Iron	21000		11	4.7	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Lead	11		0.28	0.085	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Magnesium	20000		5.7	1.2	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Manganese	340		0.57	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Nickel	26		0.57	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Potassium	2900		28	1.7	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Selenium	0.31	J	0.57	0.20	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Silver	0.056	J B	0.28	0.021	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Sodium	360		57	7.6	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Thallium	1.1		0.57	0.24	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Vanadium	15		0.28	0.042	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1
Zinc	33		1.1	0.23	mg/Kg	☼	05/08/14 08:10	05/09/14 06:57	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:34	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		18	6.9	ug/Kg	☼	05/12/14 15:00	05/13/14 12:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			05/16/14 09:29	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

# TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL  
Phone: 708.534.5200 Fax: 708



500-76271 COC

Report To (optional)  
Contact: S. Babesukumar  
Company: Weston Solutions Inc.  
Address: 750 E. Bunker A - Ste 500  
Vernon Hills, IL 60061  
Phone: 847-918-4018  
Fax: 847-918-4055  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-76271  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments
Weston Solutions Inc.		Taylor St. Bridge		8	8	8	8	8		
Project Name		Lab Project #		Parameter		Matrix		Matrix		Comments
IDOT 053- Circle Interchanges				VOCs	SVOCs	TOXIC METALS	TCU8/SRP METALS	PH		
Project Location/State		Lab PM		Parameter		Matrix		Matrix		Comments
Chicago, IL		D. Wright		VOCs	SVOCs	TOXIC METALS	TCU8/SRP METALS	PH		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Comments
1		DF-2(0-6)-050514	5-5-14	0855	2	S	X	X	X	
2		DF-2(0-6)-050514D	5-5-14	0855	2	S	X	X	X	
3		DF-2(6-11)-050514	5-5-14	0905	2	S	X	X	X	
4		DF-1(0-6)-050514	5-5-14	1005	2	S	X	X	X	
5		DF-1(6-11)-050514	5-5-14	1010	2	S	X	X	X	
6		CG-3(0-3)-050514	5-5-14	1125	2	S	X	X	X	
7		CG-3(3-7)-050514	5-5-14	1130	2	S	X	X	X	
8		CG-2(0-3)-050514	5-5-14	1140	2	S	X	X	X	
9		CG-2(3-7)-050514	5-5-14	1145	2	S	X	X	X	
10		CG-1(0-3)-050514	5-5-14	1155	2	S	X	X	X	

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

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard Other  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Gregory Bell</u>	Company <u>Weston</u>	Date <u>5-5-14</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5-5-14</u>	Time <u>1540</u>
Relinquished By	Company	Date	Time	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5/6/14</u>	Time <u>0630</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

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

Client Comments:  
  
Lab Comments:



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 750 E Bunker Ct. Ste. 500  
Vernon Hills, IL 60061  
Phone: 847-918-4018  
Fax: 847-918-4055  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-76271  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 2  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston Solutions Inc.				8 8 8 8 8		VOCs SVOCs TOTAL METALS TCLP/SLP METALS PHT					
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
1001 033 - Circle Interchange - Taylor St. Bridge				5-5-14		1200		2 S			
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
Chicago, IL		D. Wright		5-5-14		1240		2 S			
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
M. Doherty-Skubic		D. Wright		5-5-14		1240		2 S			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCLP/SLP METALS	PHT
11		CG-1(3-7)-050514	5-5-14	1200	2	S	X	X	X	X	X
12		IR-4(0-6)-050514	5-5-14	1240	2	S	X	X	X	X	X
13		IR-4(0-6)-050514D	5-5-14	1240	2	S	X	X	X	X	X
14		IR-4(6-12)-050514	5-5-14	1250	2	S	X	X	X	X	X
15		IR-1(0-6)-050514	5-5-14	1335	2	S	X	X	X	X	X
16		IR-1(6-12)-050514	5-5-14	1340	2	S	X	X	X	X	X
17		IR-1(12-18)-050514	5-5-14	1345	2	S	X	X	X	X	X
18		IR-1(18-24)-050514	5-5-14	1350	2	S	X	X	X	X	X
19		IR-1(24-30)-050514	5-5-14	1355	2	S	X	X	X	X	X
			5-5-14		2	S	X	X	X	X	X

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

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>M. Doherty-Skubic</u>	Company <u>Weston</u>	Date <u>5-5-14</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5-5-14</u>	Time <u>1540</u>
Relinquished By	Company	Date	Time	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5/6/14</u>	Time <u>0630</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: Circle Interchange: Taylor Street Bridge Office Phone Number, if available: \_\_\_\_\_

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

1004 S. Des Plaines Street

City: Chicago State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 41.869232321 Longitude: -87.644203450  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: Circle Interchange: Taylor Street Bridge

Latitude: 41.869232321 Longitude: -87.644203450

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

LOCATIONS CG-1 AND CG-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2615-258. Boring 2615-258-B01 and 2615-2-B01 were sampled by Andrews Engineering, Inc. and these borings were used to evaluate soil management at this site. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-76271-1 and 500-75227-1.

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

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

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

Company Name: Illinois Department of Transportation

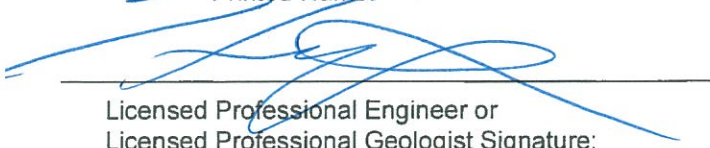
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

11/19/14

Date:





**Summary Table of ISGS Site No. 2615-258**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Circle Interchange: Taylor Street Bridge from Halsted Street to Des Plaines Street**  
**Chicago, Cook County, Illinois**

Field Sample ID	CG-1(0-3)-050514	CG-1(3-7)-050514	CG-3(0-3)-050514	CG-3(3-7)-050514	Soil Reference Concentrations <sup>A</sup>
Sample Date	5/5/2014	5/5/2014	5/5/2014	5/5/2014	
Location ID	CG-1	CG-1	CG-3	CG-3	
ISGS Site Number	2615-258	2615-258	2615-258	2615-258	
Depth	0 - 3	3 - 7	0 - 3	3 - 7	
Parameter					
Laboratory pH (s.u.)	8.11	8.22	8.25	8.27	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected				
<b>SVOCs (ug/kg)</b>					
2-Methylnaphthalene	ND	ND	12 J	ND	---
Acenaphthene	ND	ND	28 J	ND	570000
Acenaphthylene	7.4 J	ND	39	5.9 J	85000
Anthracene	19 J	ND	110	12 J	1.20E+07
Benzo(a)anthracene	70	12 J	400	49	900 / 1100 / 1800
Benzo(a)pyrene	71	10 J	340	50	90 / 1300 / 2100
Benzo(b)fluoranthene	100	14 J	410	69	900 / 1500 / 2100
Benzo(g,h,i)perylene	58	ND	250	42	2300000
Benzo(k)fluoranthene	41	ND	240	21 J	9000
Chrysene	75	ND	410	59	88000
Dibenzo(a,h)anthracene	16 J	ND	53	6.8 J	90 / 200 / 420
Fluoranthene	170	23 J	760	89	3100000
Fluorene	ND	ND	17 J	ND	560000
Indeno(1,2,3-cd)pyrene	43	ND	220	28 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	21 J	10 J	1800
Phenanthrene	80	15 J	390	86	210000
Pyrene	140	20 J	600	77	2300000
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	3.7 J	2.8 J	3.4 J	2 J	11.3 / 13
Barium, Total	32 J	8.4 J	24 J	14 J	1500
Beryllium, Total	0.21	0.13 J	0.23	0.15 J	22
Cadmium, Total	0.32 J	0.14 J	0.49 J	0.2 J	5.2
Calcium, Total	27000 J	25000 J	100000 J	80000 J	---
Chromium, Total	5.5 J	3.3 J	4.7 J	3.4 J	21
Cobalt, Total	3.7 J	2.5 J	2.7 J	1.8 J	20
Copper, Total	12	3.9	16	6.3	2900
Iron, Total	7200 J+	4800 J+	6100 J+	3600 J+	15000 / 15900
Lead, Total	57 J	6.4 J	58 J	15 J	107
Magnesium, Total	15000 J	13000 J	47000 J	41000 J	325000
Manganese, Total	170 J	180 J	200 J	100 J	630 / 636
Mercury, Total	0.033	ND	0.61	0.016 J	0.89
Nickel, Total	7.9	4.8	5.4	4.5	100
Potassium, Total	770 J+	380 J+	750 J+	900 J+	---
Sodium, Total	170 J	140 J	220 J	130 J	---
Thallium, Total	0.22 J	0.28 J	0.29 J	0.32 J	2.6
Vanadium, Total	8.6	6.5	6.6	4.9	550
Zinc, Total	35 J	10 J	94 J	20 J	5100
<b>TCLP Metals (mg/l)</b>					
Barium, TCLP	0.24 J	0.13 J	0.33 J	0.4 J	2
Cadmium, TCLP	ND	ND	ND	0.0023 J	0.005
Cobalt, TCLP	ND	0.011 J	ND	0.045	1
Lead, TCLP	0.034	ND	0.0088	0.035	0.0075
Manganese, TCLP	0.81	1.6	1.3	2.9	0.15
Nickel, TCLP	0.011 J	0.018 J	ND	0.051	0.1
<b>SPLP Metals (mg/l)</b>					
Barium, SPLP	0.065 J	ND	0.074 J	0.11 J	2
Chromium, SPLP	0.013 J	ND	0.015 J	0.029	0.1
Cobalt, SPLP	ND	ND	ND	0.01 J	1
Copper, SPLP	0.026	0.024 J	0.025	0.056	0.65
Iron, SPLP	13	11	14	23	5
Lead, SPLP	0.12	0.024	0.12	0.063	0.0075
Manganese, SPLP	0.11	0.13	0.11	0.15	0.15
Mercury, SPLP	ND	ND	0.00019 J	0.00013 J	0.002
Nickel, SPLP	0.015 J	0.011 J	0.013 J	0.032	0.1
Zinc, SPLP	0.1	0.052 J	0.17	0.11	5

**Summary Table of ISGS Site No. 2615-258**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**Circle Interchange: Taylor Street Bridge from Halsted Street to Des Plaines Street**  
**Chicago, Cook County, Illinois**

**Notes:**


--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-76271-1  
Client Project/Site: IDOT - Circle Interchange - 053

For:  
Weston Solutions, Inc.  
750 E. Bunker Court  
Suite 500  
Vernon Hills, Illinois 60061-1450

Attn: Mr. S. Babusukumar



Authorized for release by:  
5/20/2014 12:02:16 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

- 1
- 2
- 3
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- 13
- 14
- 15



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(0-3)-050514**

**Lab Sample ID: 500-76271-6**

**Date Collected: 05/05/14 11:25**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 91.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	*		05/09/14 13:02	1
Benzene	<5.5		5.5	0.75	ug/Kg	*		05/09/14 13:02	1
Bromodichloromethane	<5.5		5.5	0.95	ug/Kg	*		05/09/14 13:02	1
Bromoform	<5.5		5.5	1.3	ug/Kg	*		05/09/14 13:02	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	*		05/09/14 13:02	1
Carbon disulfide	<5.5		5.5	0.82	ug/Kg	*		05/09/14 13:02	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	*		05/09/14 13:02	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	*		05/09/14 13:02	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	*		05/09/14 13:02	1
Chloroform	<5.5		5.5	0.63	ug/Kg	*		05/09/14 13:02	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	*		05/09/14 13:02	1
cis-1,2-Dichloroethene	<5.5		5.5	0.78	ug/Kg	*		05/09/14 13:02	1
cis-1,3-Dichloropropene	<5.5		5.5	0.72	ug/Kg	*		05/09/14 13:02	1
Dibromochloromethane	<5.5		5.5	0.96	ug/Kg	*		05/09/14 13:02	1
1,1-Dichloroethane	<5.5		5.5	0.87	ug/Kg	*		05/09/14 13:02	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	*		05/09/14 13:02	1
1,1-Dichloroethene	<5.5		5.5	0.89	ug/Kg	*		05/09/14 13:02	1
1,2-Dichloropropane	<5.5		5.5	0.83	ug/Kg	*		05/09/14 13:02	1
1,3-Dichloropropene, Total	<5.5		5.5	0.72	ug/Kg	*		05/09/14 13:02	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	*		05/09/14 13:02	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	*		05/09/14 13:02	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	*		05/09/14 13:02	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	*		05/09/14 13:02	1
methyl isobutyl ketone	<5.5		5.5	1.4	ug/Kg	*		05/09/14 13:02	1
Methyl tert-butyl ether	<5.5		5.5	0.91	ug/Kg	*		05/09/14 13:02	1
Styrene	<5.5		5.5	0.72	ug/Kg	*		05/09/14 13:02	1
1,1,1,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	*		05/09/14 13:02	1
Tetrachloroethene	<5.5		5.5	0.84	ug/Kg	*		05/09/14 13:02	1
Toluene	<5.5		5.5	0.77	ug/Kg	*		05/09/14 13:02	1
trans-1,2-Dichloroethene	<5.5		5.5	0.76	ug/Kg	*		05/09/14 13:02	1
trans-1,3-Dichloropropene	<5.5		5.5	0.98	ug/Kg	*		05/09/14 13:02	1
1,1,1-Trichloroethane	<5.5		5.5	0.82	ug/Kg	*		05/09/14 13:02	1
1,1,2-Trichloroethane	<5.5		5.5	0.75	ug/Kg	*		05/09/14 13:02	1
Trichloroethene	<5.5		5.5	0.91	ug/Kg	*		05/09/14 13:02	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	*		05/09/14 13:02	1
Xylenes, Total	<11		11	0.50	ug/Kg	*		05/09/14 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122		05/09/14 13:02	1
Dibromofluoromethane	110		75 - 120		05/09/14 13:02	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		05/09/14 13:02	1
Toluene-d8 (Surr)	106		75 - 122		05/09/14 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	38	ug/Kg	*	05/14/14 07:32	05/19/14 17:29	1
1,2-Dichlorobenzene	<170		170	42	ug/Kg	*	05/14/14 07:32	05/19/14 17:29	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	*	05/14/14 07:32	05/19/14 17:29	1
1,4-Dichlorobenzene	<170		170	45	ug/Kg	*	05/14/14 07:32	05/19/14 17:29	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	*	05/14/14 07:32	05/19/14 17:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(0-3)-050514**

**Lab Sample ID: 500-76271-6**

**Date Collected: 05/05/14 11:25**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 91.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	79	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>2-Methylnaphthalene</b>	<b>12</b>	<b>J</b>	35	6.4	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2-Methylphenol	<170		170	56	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
3,3'-Dichlorobenzidine	<170		170	49	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
4,6-Dinitro-2-methylphenol	<350		350	280	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Acenaphthene</b>	<b>28</b>	<b>J</b>	35	6.3	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Acenaphthylene</b>	<b>39</b>		35	4.6	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Anthracene</b>	<b>110</b>		35	5.8	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Benzo[a]anthracene</b>	<b>400</b>		35	4.7	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Benzo[a]pyrene</b>	<b>340</b>		35	6.7	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Benzo[b]fluoranthene</b>	<b>410</b>		35	7.5	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Benzo[g,h,i]perylene</b>	<b>250</b>		35	11	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Benzo[k]fluoranthene</b>	<b>240</b>		35	10	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Bis(2-chloroethoxy)methane	<170		170	36	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Bis(2-ethylhexyl) phthalate	<170		170	64	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Carbazole	<170		170	90	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Chrysene</b>	<b>410</b>		35	9.5	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Dibenz(a,h)anthracene</b>	<b>53</b>		35	6.7	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Dibenzofuran	<170		170	41	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Fluoranthene</b>	<b>760</b>		35	6.5	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Fluorene</b>	<b>17</b>	<b>J</b>	35	4.9	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Hexachloroethane	<170		170	53	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(0-3)-050514**

**Lab Sample ID: 500-76271-6**

Date Collected: 05/05/14 11:25

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>220</b>		35	9.0	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Isophorone	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Naphthalene</b>	<b>21</b>	<b>J</b>	35	5.4	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
N-Nitrosodi-n-propylamine	<170		170	43	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Phenanthrene</b>	<b>390</b>		35	4.9	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
Phenol	<170		170	77	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Pyrene</b>	<b>600</b>		35	6.9	ug/Kg	☼	05/14/14 07:32	05/19/14 17:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	65		35 - 137				05/14/14 07:32	05/19/14 17:29	1
2-Fluorobiphenyl	60		25 - 119				05/14/14 07:32	05/19/14 17:29	1
2-Fluorophenol	60		25 - 110				05/14/14 07:32	05/19/14 17:29	1
Nitrobenzene-d5	56		25 - 115				05/14/14 07:32	05/19/14 17:29	1
Phenol-d5	67		31 - 110				05/14/14 07:32	05/19/14 17:29	1
Terphenyl-d14	61		36 - 134				05/14/14 07:32	05/19/14 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 00:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 00:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 00:56	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
Copper	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 00:56	1
<b>Lead</b>	<b>0.0088</b>		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 00:56	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 00:56	1
<b>Zinc</b>	<b>0.18</b>		0.10	0.020	mg/L		05/13/14 07:30	05/14/14 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1
<b>Barium</b>	<b>0.074</b>	<b>J</b>	0.50	0.050	mg/L		05/09/14 09:30	05/14/14 03:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 03:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 03:57	1
<b>Chromium</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1
<b>Copper</b>	<b>0.025</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1
<b>Iron</b>	<b>14</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 03:57	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 03:57	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(0-3)-050514**

**Lab Sample ID: 500-76271-6**

Date Collected: 05/05/14 11:25

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 03:57	1
Zinc	0.17		0.10	0.020	mg/L		05/09/14 09:30	05/14/14 03:57	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Arsenic	3.4		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Barium	24		0.52	0.056	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Beryllium	0.23		0.21	0.042	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Cadmium	0.49		0.10	0.013	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Calcium	100000		100	28	mg/Kg	☼	05/08/14 08:10	05/09/14 17:28	10
Chromium	4.7		0.52	0.061	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Cobalt	2.7		0.26	0.052	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Copper	16		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Iron	6100		10	4.3	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Lead	58		0.26	0.078	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Magnesium	47000		5.2	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Manganese	200		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Nickel	5.4		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Potassium	750		26	1.6	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Selenium	<0.52		0.52	0.19	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Silver	0.088	J B	0.26	0.019	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Sodium	220		52	7.0	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Thallium	0.29	J	0.52	0.22	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Vanadium	6.6		0.26	0.039	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1
Zinc	94		1.0	0.21	mg/Kg	☼	05/08/14 08:10	05/09/14 05:23	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	J	0.20	0.10	ug/L		05/09/14 16:15	05/12/14 17:58	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	610		91	36	ug/Kg	☼	05/12/14 15:00	05/13/14 12:56	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			05/16/14 08:04	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(3-7)-050514**

**Lab Sample ID: 500-76271-7**

Date Collected: 05/05/14 11:30

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 91.0

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	☼		05/07/14 16:44	1
Benzene	<5.5		5.5	0.75	ug/Kg	☼		05/07/14 16:44	1
Bromodichloromethane	<5.5		5.5	0.95	ug/Kg	☼		05/07/14 16:44	1
Bromoform	<5.5		5.5	1.3	ug/Kg	☼		05/07/14 16:44	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	☼		05/07/14 16:44	1
Carbon disulfide	<5.5		5.5	0.82	ug/Kg	☼		05/07/14 16:44	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	☼		05/07/14 16:44	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	☼		05/07/14 16:44	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	☼		05/07/14 16:44	1
Chloroform	<5.5		5.5	0.63	ug/Kg	☼		05/07/14 16:44	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	☼		05/07/14 16:44	1
cis-1,2-Dichloroethene	<5.5		5.5	0.78	ug/Kg	☼		05/07/14 16:44	1
cis-1,3-Dichloropropene	<5.5		5.5	0.72	ug/Kg	☼		05/07/14 16:44	1
Dibromochloromethane	<5.5		5.5	0.96	ug/Kg	☼		05/07/14 16:44	1
1,1-Dichloroethane	<5.5		5.5	0.87	ug/Kg	☼		05/07/14 16:44	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		05/07/14 16:44	1
1,1-Dichloroethene	<5.5		5.5	0.89	ug/Kg	☼		05/07/14 16:44	1
1,2-Dichloropropane	<5.5		5.5	0.83	ug/Kg	☼		05/07/14 16:44	1
1,3-Dichloropropene, Total	<5.5		5.5	0.72	ug/Kg	☼		05/07/14 16:44	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	☼		05/07/14 16:44	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	☼		05/07/14 16:44	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	☼		05/07/14 16:44	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		05/07/14 16:44	1
methyl isobutyl ketone	<5.5		5.5	1.4	ug/Kg	☼		05/07/14 16:44	1
Methyl tert-butyl ether	<5.5		5.5	0.91	ug/Kg	☼		05/07/14 16:44	1
Styrene	<5.5		5.5	0.72	ug/Kg	☼		05/07/14 16:44	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	☼		05/07/14 16:44	1
Tetrachloroethene	<5.5		5.5	0.84	ug/Kg	☼		05/07/14 16:44	1
Toluene	<5.5		5.5	0.77	ug/Kg	☼		05/07/14 16:44	1
trans-1,2-Dichloroethene	<5.5		5.5	0.76	ug/Kg	☼		05/07/14 16:44	1
trans-1,3-Dichloropropene	<5.5		5.5	0.98	ug/Kg	☼		05/07/14 16:44	1
1,1,1-Trichloroethane	<5.5		5.5	0.82	ug/Kg	☼		05/07/14 16:44	1
1,1,2-Trichloroethane	<5.5		5.5	0.75	ug/Kg	☼		05/07/14 16:44	1
Trichloroethene	<5.5		5.5	0.91	ug/Kg	☼		05/07/14 16:44	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	☼		05/07/14 16:44	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		05/07/14 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 122		05/07/14 16:44	1
Dibromofluoromethane	112		75 - 120		05/07/14 16:44	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134		05/07/14 16:44	1
Toluene-d8 (Surr)	111		75 - 122		05/07/14 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(3-7)-050514**

**Lab Sample ID: 500-76271-7**

**Date Collected: 05/05/14 11:30**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 91.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2-Methylphenol	<180		180	57	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
4,6-Dinitro-2-methylphenol	<350		350	280	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Acenaphthylene</b>	<b>5.9</b>	<b>J</b>	35	4.7	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Anthracene</b>	<b>12</b>	<b>J</b>	35	5.9	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Benzo[a]anthracene</b>	<b>49</b>		35	4.8	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Benzo[a]pyrene</b>	<b>50</b>		35	6.9	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Benzo[b]fluoranthene</b>	<b>69</b>		35	7.6	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Benzo[g,h,i]perylene</b>	<b>42</b>		35	11	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Benzo[k]fluoranthene</b>	<b>21</b>	<b>J</b>	35	10	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Carbazole	<180		180	91	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Chrysene</b>	<b>59</b>		35	9.7	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Dibenz(a,h)anthracene</b>	<b>6.8</b>	<b>J</b>	35	6.8	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Dibenzofuran	<180		180	41	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Fluoranthene</b>	<b>89</b>		35	6.6	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Fluorene	<35		35	5.0	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Hexachloroethane	<180		180	54	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(3-7)-050514**

**Lab Sample ID: 500-76271-7**

Date Collected: 05/05/14 11:30

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>28</b>	<b>J</b>	35	9.2	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Isophorone	<180		180	40	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Naphthalene</b>	<b>10</b>	<b>J</b>	35	5.4	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
N-Nitrosodi-n-propylamine	<180		180	43	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Phenanthrene</b>	<b>86</b>		35	4.9	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
Phenol	<180		180	79	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Pyrene</b>	<b>77</b>		35	7.0	ug/Kg	☼	05/14/14 07:32	05/19/14 17:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	57		35 - 137				05/14/14 07:32	05/19/14 17:50	1
2-Fluorobiphenyl	45		25 - 119				05/14/14 07:32	05/19/14 17:50	1
2-Fluorophenol	45		25 - 110				05/14/14 07:32	05/19/14 17:50	1
Nitrobenzene-d5	41		25 - 115				05/14/14 07:32	05/19/14 17:50	1
Phenol-d5	50		31 - 110				05/14/14 07:32	05/19/14 17:50	1
Terphenyl-d14	47		36 - 134				05/14/14 07:32	05/19/14 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 01:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 01:02	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 01:02	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
<b>Cobalt</b>	<b>0.045</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
Copper	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 01:02	1
<b>Lead</b>	<b>0.035</b>		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 01:02	1
<b>Manganese</b>	<b>2.9</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
<b>Nickel</b>	<b>0.051</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:02	1
<b>Zinc</b>	<b>0.17</b>	<b>B</b>	0.10	0.020	mg/L		05/13/14 07:30	05/14/14 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		05/09/14 09:30	05/14/14 04:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 04:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Chromium</b>	<b>0.029</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Copper</b>	<b>0.056</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Iron</b>	<b>23</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Lead</b>	<b>0.063</b>		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Nickel</b>	<b>0.032</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-3(3-7)-050514**

**Lab Sample ID: 500-76271-7**

Date Collected: 05/05/14 11:30

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:04	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		05/09/14 09:30	05/14/14 04:04	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Arsenic</b>	<b>2.0</b>		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Barium</b>	<b>14</b>		0.54	0.057	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Beryllium</b>	<b>0.15</b>	J	0.21	0.043	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Cadmium</b>	<b>0.20</b>		0.11	0.014	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Calcium</b>	<b>80000</b>		110	29	mg/Kg	☼	05/08/14 08:10	05/09/14 17:40	10
<b>Chromium</b>	<b>3.4</b>		0.54	0.062	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Cobalt</b>	<b>1.8</b>		0.27	0.054	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Copper</b>	<b>6.3</b>		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Iron</b>	<b>3600</b>		11	4.4	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Lead</b>	<b>15</b>		0.27	0.080	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Magnesium</b>	<b>41000</b>		5.4	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Manganese</b>	<b>100</b>		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Nickel</b>	<b>4.5</b>		0.54	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Potassium</b>	<b>900</b>		27	1.6	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Sodium</b>	<b>130</b>		54	7.2	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Thallium</b>	<b>0.32</b>	J	0.54	0.23	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Vanadium</b>	<b>4.9</b>		0.27	0.040	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1
<b>Zinc</b>	<b>20</b>		1.1	0.22	mg/Kg	☼	05/08/14 08:10	05/09/14 05:30	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.13</b>	J	0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:00	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	J	17	6.6	ug/Kg	☼	05/12/14 15:00	05/13/14 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.27</b>		0.200	0.200	SU			05/16/14 08:04	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(0-3)-050514**

**Lab Sample ID: 500-76271-10**

Date Collected: 05/05/14 11:55

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 93.8

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	*		05/07/14 17:59	1
Benzene	<5.3		5.3	0.73	ug/Kg	*		05/07/14 17:59	1
Bromodichloromethane	<5.3		5.3	0.92	ug/Kg	*		05/07/14 17:59	1
Bromoform	<5.3		5.3	1.2	ug/Kg	*		05/07/14 17:59	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	*		05/07/14 17:59	1
Carbon disulfide	<5.3		5.3	0.80	ug/Kg	*		05/07/14 17:59	1
Carbon tetrachloride	<5.3		5.3	0.97	ug/Kg	*		05/07/14 17:59	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	*		05/07/14 17:59	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	*		05/07/14 17:59	1
Chloroform	<5.3		5.3	0.61	ug/Kg	*		05/07/14 17:59	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	*		05/07/14 17:59	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	*		05/07/14 17:59	1
cis-1,3-Dichloropropene	<5.3		5.3	0.70	ug/Kg	*		05/07/14 17:59	1
Dibromochloromethane	<5.3		5.3	0.93	ug/Kg	*		05/07/14 17:59	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	*		05/07/14 17:59	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	*		05/07/14 17:59	1
1,1-Dichloroethene	<5.3		5.3	0.86	ug/Kg	*		05/07/14 17:59	1
1,2-Dichloropropane	<5.3		5.3	0.81	ug/Kg	*		05/07/14 17:59	1
1,3-Dichloropropene, Total	<5.3		5.3	0.70	ug/Kg	*		05/07/14 17:59	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	*		05/07/14 17:59	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	*		05/07/14 17:59	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	*		05/07/14 17:59	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	*		05/07/14 17:59	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	*		05/07/14 17:59	1
Methyl tert-butyl ether	<5.3		5.3	0.88	ug/Kg	*		05/07/14 17:59	1
Styrene	<5.3		5.3	0.70	ug/Kg	*		05/07/14 17:59	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	*		05/07/14 17:59	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	*		05/07/14 17:59	1
Toluene	<5.3		5.3	0.75	ug/Kg	*		05/07/14 17:59	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	*		05/07/14 17:59	1
trans-1,3-Dichloropropene	<5.3		5.3	0.96	ug/Kg	*		05/07/14 17:59	1
1,1,1-Trichloroethane	<5.3		5.3	0.80	ug/Kg	*		05/07/14 17:59	1
1,1,2-Trichloroethane	<5.3		5.3	0.73	ug/Kg	*		05/07/14 17:59	1
Trichloroethene	<5.3		5.3	0.88	ug/Kg	*		05/07/14 17:59	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	*		05/07/14 17:59	1
Xylenes, Total	<11		11	0.48	ug/Kg	*		05/07/14 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 122		05/07/14 17:59	1
Dibromofluoromethane	108		75 - 120		05/07/14 17:59	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134		05/07/14 17:59	1
Toluene-d8 (Surr)	111		75 - 122		05/07/14 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	*	05/14/14 07:32	05/16/14 17:31	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	*	05/14/14 07:32	05/16/14 17:31	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	*	05/14/14 07:32	05/16/14 17:31	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	*	05/14/14 07:32	05/16/14 17:31	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	*	05/14/14 07:32	05/16/14 17:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(0-3)-050514**

**Lab Sample ID: 500-76271-10**

**Date Collected: 05/05/14 11:55**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 93.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<330		330	76	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2,4,6-Trichlorophenol	<330		330	110	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2,4-Dichlorophenol	<330		330	79	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2,4-Dinitrophenol	<670		670	590	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2,4-Dinitrotoluene	<170		170	53	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2,6-Dinitrotoluene	<170		170	66	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2-Chlorophenol	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2-Methylnaphthalene	<33		33	6.1	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2-Methylphenol	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
2-Nitrophenol	<330		330	79	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
3 & 4 Methylphenol	<170		170	56	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
3,3'-Dichlorobenzidine	<170		170	47	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
4,6-Dinitro-2-methylphenol	<330		330	270	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
4-Chloroaniline	<670		670	160	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
4-Nitroaniline	<330		330	140	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
4-Nitrophenol	<670		670	320	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Acenaphthene	<33		33	6.0	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Acenaphthylene</b>	<b>7.4</b>	<b>J</b>	33	4.4	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Anthracene</b>	<b>19</b>	<b>J</b>	33	5.6	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Benzo[a]anthracene</b>	<b>70</b>		33	4.5	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Benzo[a]pyrene</b>	<b>71</b>		33	6.5	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Benzo[b]fluoranthene</b>	<b>100</b>		33	7.2	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Benzo[g,h,i]perylene</b>	<b>58</b>		33	11	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Benzo[k]fluoranthene</b>	<b>41</b>		33	9.8	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Bis(2-ethylhexyl) phthalate	<170		170	61	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Butyl benzyl phthalate	<170		170	64	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Carbazole	<170		170	86	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Chrysene</b>	<b>75</b>		33	9.1	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Dibenz(a,h)anthracene</b>	<b>16</b>	<b>J</b>	33	6.5	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Dibenzofuran	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Di-n-octyl phthalate	<170		170	54	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Fluoranthene</b>	<b>170</b>		33	6.2	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Fluorene	<33		33	4.7	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Hexachlorobenzene	<67		67	7.7	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Hexachlorobutadiene	<170		170	52	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Hexachlorocyclopentadiene	<670		670	190	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Hexachloroethane	<170		170	51	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(0-3)-050514**

**Lab Sample ID: 500-76271-10**

Date Collected: 05/05/14 11:55

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>43</b>		33	8.7	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Isophorone	<170		170	37	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Naphthalene	<33		33	5.1	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Nitrobenzene	<33		33	8.3	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
N-Nitrosodi-n-propylamine	<170		170	41	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
N-Nitrosodiphenylamine	<170		170	39	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Pentachlorophenol	<670		670	540	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Phenanthrene</b>	<b>80</b>		33	4.7	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Phenol	<170		170	74	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
<b>Pyrene</b>	<b>140</b>		33	6.6	ug/Kg	☼	05/14/14 07:32	05/16/14 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		35 - 137				05/14/14 07:32	05/16/14 17:31	1
2-Fluorobiphenyl	56		25 - 119				05/14/14 07:32	05/16/14 17:31	1
2-Fluorophenol	58		25 - 110				05/14/14 07:32	05/16/14 17:31	1
Nitrobenzene-d5	53		25 - 115				05/14/14 07:32	05/16/14 17:31	1
Phenol-d5	57		31 - 110				05/14/14 07:32	05/16/14 17:31	1
Terphenyl-d14	62		36 - 134				05/14/14 07:32	05/16/14 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 01:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 01:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 01:21	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
Copper	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 01:21	1
<b>Lead</b>	<b>0.034</b>		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 01:21	1
<b>Manganese</b>	<b>0.81</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:21	1
<b>Zinc</b>	<b>0.062</b>	<b>J</b>	0.10	0.020	mg/L		05/13/14 07:30	05/14/14 01:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1
<b>Barium</b>	<b>0.065</b>	<b>J</b>	0.50	0.050	mg/L		05/09/14 09:30	05/14/14 04:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 04:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 04:37	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1
<b>Copper</b>	<b>0.026</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1
<b>Iron</b>	<b>13</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 04:37	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 04:37	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(0-3)-050514**

**Lab Sample ID: 500-76271-10**

Date Collected: 05/05/14 11:55

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:37	1
Zinc	0.10		0.10	0.020	mg/L		05/09/14 09:30	05/14/14 04:37	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.41	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Arsenic	3.7		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Barium	32		0.52	0.055	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Beryllium	0.21		0.21	0.041	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Cadmium	0.32		0.10	0.013	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Calcium	27000		10	2.8	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Chromium	5.5		0.52	0.060	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Cobalt	3.7		0.26	0.052	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Copper	12		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Iron	7200		10	4.2	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Lead	57		0.26	0.077	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Magnesium	15000		5.2	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Manganese	170		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Nickel	7.9		0.52	0.10	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Potassium	770		26	1.6	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Silver	0.043	J B	0.26	0.019	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Sodium	170		52	6.9	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Thallium	0.22	J	0.52	0.22	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Vanadium	8.6		0.26	0.038	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1
Zinc	35		1.0	0.21	mg/Kg	☼	05/08/14 08:10	05/09/14 05:48	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:08	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33		17	6.6	ug/Kg	☼	05/12/14 15:00	05/13/14 11:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			05/16/14 08:04	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(3-7)-050514**

**Lab Sample ID: 500-76271-11**

Date Collected: 05/05/14 12:00

Matrix: Solid

Date Received: 05/06/14 06:30

Percent Solids: 85.8

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		05/09/14 13:49	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		05/09/14 13:49	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		05/09/14 13:49	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		05/09/14 13:49	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		05/09/14 13:49	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		05/09/14 13:49	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		05/09/14 13:49	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		05/09/14 13:49	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		05/09/14 13:49	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		05/09/14 13:49	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		05/09/14 13:49	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		05/09/14 13:49	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		05/09/14 13:49	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		05/09/14 13:49	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		05/09/14 13:49	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		05/09/14 13:49	1
1,1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		05/09/14 13:49	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		05/09/14 13:49	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		05/09/14 13:49	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		05/09/14 13:49	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		05/09/14 13:49	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		05/09/14 13:49	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		05/09/14 13:49	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		05/09/14 13:49	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		05/09/14 13:49	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		05/09/14 13:49	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		05/09/14 13:49	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		05/09/14 13:49	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		05/09/14 13:49	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		05/09/14 13:49	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		05/09/14 13:49	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		05/09/14 13:49	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		05/09/14 13:49	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		05/09/14 13:49	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		05/09/14 13:49	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		05/09/14 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122		05/09/14 13:49	1
Dibromofluoromethane	109		75 - 120		05/09/14 13:49	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		05/09/14 13:49	1
Toluene-d8 (Surr)	109		75 - 122		05/09/14 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(3-7)-050514**

**Lab Sample ID: 500-76271-11**

**Date Collected: 05/05/14 12:00**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 85.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2-Methylphenol	<190		190	62	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Anthracene	<38		38	6.4	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
<b>Benzo[a]anthracene</b>	<b>12 J</b>		38	5.2	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
<b>Benzo[a]pyrene</b>	<b>10 J</b>		38	7.5	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
<b>Benzo[b]fluoranthene</b>	<b>14 J</b>		38	8.3	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Carbazole	<190		190	99	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Chrysene	<38		38	10	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Dibenzofuran	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
<b>Fluoranthene</b>	<b>23 J</b>		38	7.1	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Fluorene	<38		38	5.4	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Hexachloroethane	<190		190	59	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(3-7)-050514**

**Lab Sample ID: 500-76271-11**

**Date Collected: 05/05/14 12:00**

**Matrix: Solid**

**Date Received: 05/06/14 06:30**

**Percent Solids: 85.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Isophorone	<190		190	43	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Naphthalene	<38		38	5.9	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
<b>Phenanthrene</b>	<b>15</b>	<b>J</b>	38	5.4	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
Phenol	<190		190	86	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1
<b>Pyrene</b>	<b>20</b>	<b>J</b>	38	7.6	ug/Kg	☼	05/14/14 07:32	05/16/14 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		35 - 137	05/14/14 07:32	05/16/14 17:52	1
2-Fluorobiphenyl	49		25 - 119	05/14/14 07:32	05/16/14 17:52	1
2-Fluorophenol	58		25 - 110	05/14/14 07:32	05/16/14 17:52	1
Nitrobenzene-d5	44		25 - 115	05/14/14 07:32	05/16/14 17:52	1
Phenol-d5	57		31 - 110	05/14/14 07:32	05/16/14 17:52	1
Terphenyl-d14	56		36 - 134	05/14/14 07:32	05/16/14 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		05/13/14 07:30	05/14/14 01:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/14 07:30	05/14/14 01:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/14 07:30	05/14/14 01:27	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
Copper	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
Iron	<0.20		0.20	0.20	mg/L		05/13/14 07:30	05/14/14 01:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/14 07:30	05/14/14 01:27	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
Selenium	<0.050		0.050	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
Silver	<0.025		0.025	0.010	mg/L		05/13/14 07:30	05/14/14 01:27	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		05/13/14 07:30	05/14/14 01:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1
Barium	<0.50		0.50	0.050	mg/L		05/09/14 09:30	05/14/14 04:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/09/14 09:30	05/14/14 04:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/09/14 09:30	05/14/14 04:43	1
Chromium	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1
Cobalt	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1
<b>Copper</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1
<b>Iron</b>	<b>11</b>		0.20	0.20	mg/L		05/09/14 09:30	05/14/14 04:43	1
<b>Lead</b>	<b>0.024</b>		0.0075	0.0075	mg/L		05/09/14 09:30	05/14/14 04:43	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1
Selenium	<0.050		0.050	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

**Client Sample ID: CG-1(3-7)-050514**

**Lab Sample ID: 500-76271-11**

Date Collected: 05/05/14 12:00

Matrix: Solid

Date Received: 05/06/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/09/14 09:30	05/14/14 04:43	1
<b>Zinc</b>	<b>0.052</b>	<b>J</b>	0.10	0.020	mg/L		05/09/14 09:30	05/14/14 04:43	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Arsenic</b>	<b>2.8</b>		0.56	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Barium</b>	<b>8.4</b>		0.56	0.059	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Beryllium</b>	<b>0.13</b>	<b>J</b>	0.22	0.044	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Cadmium</b>	<b>0.14</b>		0.11	0.014	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Calcium</b>	<b>25000</b>		11	3.0	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Chromium</b>	<b>3.3</b>		0.56	0.064	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Cobalt</b>	<b>2.5</b>		0.28	0.056	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Copper</b>	<b>3.9</b>		0.56	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Iron</b>	<b>4800</b>		11	4.6	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Lead</b>	<b>6.4</b>		0.28	0.083	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Magnesium</b>	<b>13000</b>		5.6	1.1	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Manganese</b>	<b>180</b>		0.56	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Nickel</b>	<b>4.8</b>		0.56	0.11	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Potassium</b>	<b>380</b>		28	1.7	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Sodium</b>	<b>140</b>		56	7.4	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.56	0.23	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Vanadium</b>	<b>6.5</b>		0.28	0.041	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1
<b>Zinc</b>	<b>10</b>		1.1	0.22	mg/Kg	☼	05/08/14 08:10	05/09/14 06:07	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/13/14 13:49	05/14/14 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.10	ug/L		05/09/14 16:15	05/12/14 18:10	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	7.2	ug/Kg	☼	05/12/14 15:00	05/13/14 11:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.22</b>		0.200	0.200	SU			05/16/14 08:04	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Circle Interchange - 053

TestAmerica Job ID: 500-76271-1

## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL  
Phone: 708.534.5200 Fax: 708



500-76271 COC

Report To (optional)  
Contact: S. Babesukumar  
Company: Weston Solutions Inc.  
Address: 750 E. Bunker A - Ste 500  
Vernon Hills, IL 60061  
Phone: 847-918-4018  
Fax: 847-918-4055  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-76271  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments
Weston Solutions Inc.		Taylor St. Bridge		8	8	8	8	8		
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Preservative Key
IDOT 053- Circle Interchanges				2	S	VOCs	SVOCs	TOTAL METALS	TU8/SRP METALS	
Project Location/State		Lab PM		Date		Time		Matrix		Preservative Key
Chicago, IL		D. Wright		5-5-14	0855	2	S	VOCs	SVOCs	
Sampler		Lab PM		Date		Time		Matrix		Preservative Key
M. Doherty - 6Kubic		D. Wright		5-5-14	0905	2	S	VOCs	SVOCs	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Preservative Key
1		DF-2(0-6)-050514	5-5-14	0855	2	S	VOCs	SVOCs	TOTAL METALS	
2		DF-2(0-6)-050514D	5-5-14	0855	2	S	VOCs	SVOCs	TOTAL METALS	
3		DF-2(6-11)-050514	5-5-14	0905	2	S	VOCs	SVOCs	TOTAL METALS	
4		DF-1(0-6)-050514	5-5-14	1005	2	S	VOCs	SVOCs	TOTAL METALS	
5		DF-1(6-11)-050514	5-5-14	1010	2	S	VOCs	SVOCs	TOTAL METALS	
6		CG-3(0-3)-050514	5-5-14	1125	2	S	VOCs	SVOCs	TOTAL METALS	
7		CG-3(3-7)-050514	5-5-14	1130	2	S	VOCs	SVOCs	TOTAL METALS	
8		CG-2(0-3)-050514	5-5-14	1140	2	S	VOCs	SVOCs	TOTAL METALS	
9		CG-2(3-7)-050514	5-5-14	1145	2	S	VOCs	SVOCs	TOTAL METALS	
10		CG-1(0-3)-050514	5-5-14	1155	2	S	VOCs	SVOCs	TOTAL METALS	

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

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>Gregory J. Kelly</u>	Company <u>Weston</u>	Date <u>5-5-14</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5-5-14</u>	Time <u>1540</u>
Relinquished By	Company	Date	Time	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5/6/14</u>	Time <u>0630</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

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

Client Comments:

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 750 E Bunker Ct. Ste. 500  
Vernon Hills, IL 60061  
Phone: 847-918-4018  
Fax: 847-918-4055  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-76271

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

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Weston Solutions Inc.				8 8 8 8 8		VOCs SVOCs TOTAL METALS TCLP/SLP METALS pH						
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		
1001 033 - Circle Interchange - Taylor St. Bridge				5-5-14		1200		2 S				
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix		
Chicago, IL		D. Wright		5-5-14		1240		2 S				
Sampler		Lab PM		Date		Time		# of Containers		Matrix		
M. Doherty-Skubic		D. Wright		5-5-14		1240		2 S				
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCLP/SLP METALS	pH	Comments
11		CG-1(3-7)-050514	5-5-14	1200	2	S	X	X	X	X	X	
12		IR-4(0-6)-050514	5-5-14	1240	2	S	X	X	X	X	X	
13		IR-4(0-6)-050514D	5-5-14	1240	2	S	X	X	X	X	X	
14		IR-4(6-12)-050514	5-5-14	1250	2	S	X	X	X	X	X	
15		IR-1(0-6)-050514	5-5-14	1335	2	S	X	X	X	X	X	
16		IR-1(6-12)-050514	5-5-14	1340	2	S	X	X	X	X	X	
17		IR-1(12-18)-050514	5-5-14	1345	2	S	X	X	X	X	X	
18		IR-1(18-24)-050514	5-5-14	1350	2	S	X	X	X	X	X	
19		IR-1(24-30)-050514	5-5-14	1355	2	S	X	X	X	X	X	
			5-5-14		2	S	X	X	X	X	X	NPS

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

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>M. Doherty-Skubic</u>	Company <u>Weston</u>	Date <u>5-5-14</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5-5-14</u>	Time <u>1540</u>
Relinquished By	Company	Date	Time	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>5/6/14</u>	Time <u>0630</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:

**Table 1**  
**Report Qualifiers and Acronyms for Analytical Tables**  
**ISGS 2615**  
**Chicago, Cook County, Illinois**

**Report Qualifiers and Acronyms:**

- J = Result is less than the reporting limit, but greater than or equal to the method detection limit. The concentration is an approximate value.
- B = Compound was detected in the Method Blank and sample.
- mg/kg = Milligrams per kilogram
- mg/L = Milligrams per liter
- ft = Feet
- SPLP = Synthetic Precipitation Leaching Procedure
- TCLP = Toxicity Characteristic Leaching Procedure
- ND = Not Detected at or above the laboratory reporting limit.
- NT = Not Tested
- NA = No applicable comparison value is listed for this compound.
- MAC = Maximum Allowable Concentrations of Chemical Constituents In Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F).
- MSA = Metropolitan Statistical Area
- m = As an alternative to the subject maximum allowable concentration value, compliance verification may be determined by comparing TCLP and/or SPLP results to the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route objective (35 Ill. Admin. Code 742 Appendix A, Table A).
  - 1 = Exceeds the most stringent MAC value.
  - 2 = Exceeds the Outside a Populated Area MAC value.
  - 3 = Exceeds the Populated Area in a Non-MSA County MAC value.
  - 4 = Exceeds the Chicago Corporate Limits MAC value.
  - 5 = Exceeds the Populated Area in a MSA, excluding Chicago value (least stringent).
  - 6 = Exceeds Tier I concentration for the Soil Component of the Groundwater Ingestion Exposure Route, Class I (TACO Appendix B, Tables A and B). Where applicable, the Class I Standard has been substituted with the Achievable Detection Limit (ADL).
  - 7 = Exceeds the most stringent TACO Tier 1 Soil Remediation Objective for Residential Properties.
  - \* = Exceeds the most stringent MAC value, but is below the most stringent TACO Tier 1 Soil Remediation Objectives for Residential Properties.

**Table 3j**  
**Soil Analytical Results**  
**ISGS Site 2615-252**  
**IDOT Dan Ryan Field Office**  
**Chicago, Cook County, Illinois**

Sample ID	2615-252-B01	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4							
Sample Date	4/16/2014							
PID	0							
Sample pH	8.22							
Matrix	Soil							
Volatile Organic Compounds (mg/kg)								
1,1,1-Trichloroethane	ND	2	NA	NA	NA	NA	NA	1,200
1,1,2,2-Tetrachloroethane	ND	NA	NA	NA	NA	NA	NA	0.62
1,1,2-Trichloroethane	ND	0.02	NA	NA	NA	NA	NA	310
1,1-Dichloroethane	ND	23	NA	NA	NA	NA	NA	1,300
1,1-Dichloroethene	ND	0.06	NA	NA	NA	NA	NA	290
1,2-Dichloroethane	ND	0.02	NA	NA	NA	NA	NA	0.4
1,2-Dichloropropane	ND	0.03	NA	NA	NA	NA	NA	9
1,3-Dichloropropene	ND	0.005	NA	NA	NA	NA	NA	1.1
2-Butanone (MEK)	ND	17	NA	NA	NA	NA	NA	25,000
2-Hexanone (MBK)	ND	NA	NA	NA	NA	NA	NA	390
4-Methyl-2-pentanone (MIBK)	ND	NA	NA	NA	NA	NA	NA	3,100
Acetone	0.0069	25	NA	NA	NA	NA	NA	70,000
Benzene	ND	0.03	NA	NA	NA	NA	NA	0.8
Bromodichloromethane	ND	0.6	NA	NA	NA	NA	NA	10
Bromoform	ND	0.8	NA	NA	NA	NA	NA	53
Bromomethane	ND	0.2	NA	NA	NA	NA	NA	10
Carbon disulfide	ND	9	NA	NA	NA	NA	NA	720
Carbon Tetrachloride	ND	0.07	NA	NA	NA	NA	NA	0.3
Chlorobenzene	ND	1	NA	NA	NA	NA	NA	130
Chloroethane	ND	NA	NA	NA	NA	NA	NA	1,500
Chloroform	ND	0.3	NA	NA	NA	NA	NA	0.3
Chloromethane	ND	NA	NA	NA	NA	NA	NA	110
cis-1,2-Dichloroethene	ND	0.4	NA	NA	NA	NA	NA	780
cis-1,3-Dichloropropene	ND	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ND	0.4	NA	NA	NA	NA	NA	1,300
Ethylbenzene	ND	13	NA	NA	NA	NA	NA	400
Methylene chloride	ND	0.02	NA	NA	NA	NA	NA	13
Methyl-tert-butyl-ether (MTBE)	ND	0.32	NA	NA	NA	NA	NA	780
Styrene	ND	4	NA	NA	NA	NA	NA	1,500
Tetrachloroethene	ND	0.06	NA	NA	NA	NA	NA	11
Toluene	ND	12	NA	NA	NA	NA	NA	650
trans-1,2-Dichloroethene	ND	0.7	NA	NA	NA	NA	NA	1,600
trans-1,3-Dichloropropene	ND	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ND	0.06	NA	NA	NA	NA	NA	5
Vinyl Acetate	ND	10	NA	NA	NA	NA	NA	1,000
Vinyl Chloride	ND	0.01	NA	NA	NA	NA	NA	0.28
Xylenes, total	ND	5.6	NA	NA	NA	NA	NA	320

**Table 3j**  
**Soil Analytical Results**  
**ISGS Site 2615-252**  
**IDOT Dan Ryan Field Office**  
**Chicago, Cook County, Illinois**

Sample ID	2615-252-B01	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective	
Sample Depth (ft)	0-4								
Sample Date	4/16/2014								
PID	0								
Sample pH	8.22								
Matrix	Soil								
<b>Semivolatile Organic Compounds (mg/kg)</b>									
1,2,4-Trichlorobenzene	ND	5	NA	NA	NA	NA	NA	780	
1,2-Dichlorobenzene	ND	17	NA	NA	NA	NA	NA	560	
1,3-Dichlorobenzene	ND	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	ND	2	NA	NA	NA	NA	NA	11,000	
2,4,5-Trichlorophenol	ND	26	NA	NA	NA	NA	NA	7,800	
2,4,6-Trichlorophenol	ND	0.66	NA	NA	NA	NA	NA	58	
2,4-Dichlorophenol	ND	0.48	NA	NA	NA	NA	NA	230	
2,4-Dimethylphenol	ND	9	NA	NA	NA	NA	NA	1,600	
2,4-Dinitrophenol	ND	3.3	NA	NA	NA	NA	NA	160	
2,4-Dinitrotoluene	ND	0.25	NA	NA	NA	NA	NA	0.9	
2,6-Dinitrotoluene	ND	0.26	NA	NA	NA	NA	NA	0.9	
2-Chloronaphthalene	ND	NA	NA	NA	NA	NA	NA	6,300	
2-Chlorophenol	ND	1.5	NA	NA	NA	NA	NA	390	
2-Methylnaphthalene	<b>J 0.036</b>	NA	NA	NA	NA	NA	NA	310	
2-Methylphenol	ND	15	NA	NA	NA	NA	NA	3,900	
2-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	18	
2-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	NA	
3,3'-Dichlorobenzidine	ND	1.3	NA	NA	NA	NA	NA	1.3	
3-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	NA	
4,6-Dinitro-2-methylphenol	ND	NA	NA	NA	NA	NA	NA	6.3	
4-Bromophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	NA	
4-Chloro-3-methylphenol	ND	NA	NA	NA	NA	NA	NA	NA	
4-Chloroaniline	ND	0.7	NA	NA	NA	NA	NA	310	
4-Chlorophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	NA	
4-Methylphenol	ND	NA	NA	NA	NA	NA	NA	7,800	
4-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	310	
4-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	630	
Acenaphthene	ND	570	NA	NA	NA	NA	NA	4,700	
Acenaphthylene	ND	85	NA	NA	NA	NA	NA	2,300	
Anthracene	ND	12,000	NA	NA	NA	NA	NA	23,000	
Benzo(a)anthracene	ND	0.9	0.9	0.9	1.1	1.8	NA	0.9	
Benzo(a)pyrene	ND	0.09	0.09	0.98	1.3	2.1	NA	0.98	

**Table 3j**  
**Soil Analytical Results**  
**ISGS Site 2615-252**  
**IDOT Dan Ryan Field Office**  
**Chicago, Cook County, Illinois**

Sample ID	2615-252-B01	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4							
Sample Date	4/16/2014							
PID	0							
Sample pH	8.22							
Matrix	Soil							
Benzo(b)fluoranthene	ND	0.9	0.9	0.9	1.5	2.1	NA	0.9
Benzo(g,h,i)perylene	<b>J 0.023</b>	2,300	NA	NA	NA	NA	NA	2,300
Benzo(k)fluoranthene	ND	9	NA	NA	NA	NA	NA	9
Bis(2-chloroethoxy)methane	ND	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	ND	0.66	NA	NA	NA	NA	NA	0.66
bis(2-chloroisopropyl)ether	ND	NA	NA	NA	NA	NA	NA	3,100
Bis(2-ethylhexyl)phthalate	ND	46	NA	NA	NA	NA	NA	46
Butyl benzyl phthalate	ND	930	NA	NA	NA	NA	NA	930
Carbazole	ND	0.6	NA	NA	NA	NA	NA	32
Chrysene	<b>J 0.026</b>	88	NA	NA	NA	NA	NA	88
Dibenzo(a,h)anthracene	ND	0.09	0.09	0.15	0.2	0.42	NA	0.15
Dibenzofuran	ND	NA	NA	NA	NA	NA	NA	78
Diethyl phthalate	ND	470	NA	NA	NA	NA	NA	2,000
Dimethyl phthalate	ND	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	ND	2,300	NA	NA	NA	NA	NA	2,300
Di-n-octyl phthalate	ND	1,600	NA	NA	NA	NA	NA	1,600
Fluoranthene	<b>J 0.02</b>	3,100	NA	NA	NA	NA	NA	3,100
Fluorene	<b>J 0.023</b>	560	NA	NA	NA	NA	NA	3,100
Hexachlorobenzene	ND	0.4	NA	NA	NA	NA	NA	0.4
Hexachlorobutadiene	ND	NA	NA	NA	NA	NA	NA	78
Hexachlorocyclopentadiene	ND	1.1	NA	NA	NA	NA	NA	10
Hexachloroethane	ND	0.5	NA	NA	NA	NA	NA	78
Indeno(1,2,3-cd)pyrene	ND	0.9	0.9	0.9	0.9	1.6	NA	0.9
Isophorone	ND	8	NA	NA	NA	NA	NA	4,600
Naphthalene	ND	1.8	NA	NA	NA	NA	NA	170
Nitrobenzene	ND	0.26	NA	NA	NA	NA	NA	39
N-Nitrosodi-n-propylamine	ND	0.0018	NA	NA	NA	NA	NA	0.09
N-Nitrosodiphenylamine	ND	1	NA	NA	NA	NA	NA	130
Pentachlorophenol	ND	0.02	NA	NA	NA	NA	NA	3
Phenanthrene	<b>0.069</b>	210	NA	NA	NA	NA	NA	2,300
Phenol	ND	100	NA	NA	NA	NA	NA	23,000
Pyrene	<b>J 0.033</b>	2,300	NA	NA	NA	NA	NA	2,300



**Table 3j**  
**Soil Analytical Results**  
**ISGS Site 2615-252**  
**IDOT Dan Ryan Field Office**  
**Chicago, Cook County, Illinois**

Sample ID	2615-252-B01		1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4								
Sample Date	4/16/2014								
PID	0								
Sample pH	8.22								
Matrix	Soil								
<b>Inorganic Compounds, Total (mg/kg)</b>									
Antimony	ND		5	NA	NA	NA	NA	NA	31
Arsenic	7.3		11.3	NA	11.3	NA	13	NA	11.3
Barium	35		1,500	NA	NA	NA	NA	NA	5,500
Beryllium	0.47		22	NA	NA	NA	NA	NA	160
Boron	12		40	NA	NA	NA	NA	NA	16,000
Cadmium	0.71		5.2	NA	NA	NA	NA	NA	78
Calcium	B 53000		NA	NA	NA	NA	NA	NA	NA
Chromium	14		21	NA	NA	NA	NA	NA	230
Cobalt	10		20	NA	NA	NA	NA	NA	4,700
Copper	26		2,900	NA	NA	NA	NA	NA	2,900
Iron	18000	1,3,5	15,000	NA	15,000	NA	15,900	NA	NA
Lead	B 12		107	NA	NA	NA	NA	NA	400
Magnesium	B 27000		325,000	NA	NA	NA	NA	NA	325,000
Manganese	360		630	NA	630	NA	636	NA	1,600
Mercury	0.024		0.89	NA	NA	NA	NA	NA	10
Nickel	26		100	NA	NA	NA	NA	NA	1,600
Potassium	2700		NA	NA	NA	NA	NA	NA	NA
Selenium	J 0.5		1.3	NA	NA	NA	NA	NA	390
Silver	J B 0.033		4.4	NA	NA	NA	NA	NA	390
Sodium	1500		NA	NA	NA	NA	NA	NA	NA
Thallium	0.7		2.6	NA	NA	NA	NA	NA	6.3
Vanadium	16		550	NA	NA	NA	NA	NA	550
Zinc	48		5,100	NA	NA	NA	NA	NA	23,000

**Table 3j**  
**Soil Analytical Results**  
**ISGS Site 2615-252**  
**IDOT Dan Ryan Field Office**  
**Chicago, Cook County, Illinois**

Sample ID	2615-252-B01		1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4								
Sample Date	4/16/2014								
PID	0								
Sample pH	8.22								
Matrix	Soil								
<b>SPLP Metals (mg/L)</b>									
Antimony	ND		m	NA	NA	NA	NA	0.006	NA
Barium	J 0.1		m	NA	NA	NA	NA	2	NA
Beryllium	ND		m	NA	NA	NA	NA	0.004	NA
Boron	0.74		m	NA	NA	NA	NA	2	NA
Cadmium	ND		m	NA	NA	NA	NA	0.005	NA
Chromium	J 0.011		m	NA	NA	NA	NA	0.1	NA
Cobalt	ND		m	NA	NA	NA	NA	1	NA
Iron	4.2		m	NA	NA	NA	NA	5	NA
Lead	0.017	6	m	NA	NA	NA	NA	0.0075	NA
Manganese	0.11		m	NA	NA	NA	NA	0.15	NA
Mercury	ND		m	NA	NA	NA	NA	0.002	NA
Nickel	J 0.01		m	NA	NA	NA	NA	0.1	NA
Selenium	ND		m	NA	NA	NA	NA	0.05	NA
Silver	ND		m	NA	NA	NA	NA	0.05	NA
Thallium	ND		m	NA	NA	NA	NA	0.002	NA
Zinc	0.15		m	NA	NA	NA	NA	5	NA
<b>TCLP Metals (mg/L)</b>									
Antimony	NT		m	NA	NA	NA	NA	0.006	NA
Barium	NT		m	NA	NA	NA	NA	2	NA
Beryllium	NT		m	NA	NA	NA	NA	0.004	NA
Boron	NT		m	NA	NA	NA	NA	2	NA
Cadmium	NT		m	NA	NA	NA	NA	0.005	NA
Chromium	NT		m	NA	NA	NA	NA	0.1	NA
Cobalt	NT		m	NA	NA	NA	NA	1	NA
Iron	NT		m	NA	NA	NA	NA	5	NA
Lead	ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	NT		m	NA	NA	NA	NA	0.15	NA
Mercury	NT		m	NA	NA	NA	NA	0.002	NA
Nickel	NT		m	NA	NA	NA	NA	0.1	NA
Selenium	NT		m	NA	NA	NA	NA	0.05	NA
Silver	NT		m	NA	NA	NA	NA	0.05	NA
Thallium	NT		m	NA	NA	NA	NA	0.002	NA
Zinc	NT		m	NA	NA	NA	NA	5	NA

**Table 3k**  
**Soil Analytical Results**  
**ISGS Site 2615-258**  
**Citgo**  
**Chicago, Cook County, Illinois**

Sample ID	2615-258-B01	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4							
Sample Date	4/16/2014							
PID	0							
Sample pH	8.37							
Matrix	Soil							
<b>Volatiles Organic Compounds (mg/kg)</b>								
1,1,1-Trichloroethane	ND	2	NA	NA	NA	NA	NA	1,200
1,1,2,2-Tetrachloroethane	ND	NA	NA	NA	NA	NA	NA	0.62
1,1,2-Trichloroethane	ND	0.02	NA	NA	NA	NA	NA	310
1,1-Dichloroethane	ND	23	NA	NA	NA	NA	NA	1,300
1,1-Dichloroethene	ND	0.06	NA	NA	NA	NA	NA	290
1,2-Dichloroethane	ND	0.02	NA	NA	NA	NA	NA	0.4
1,2-Dichloropropane	ND	0.03	NA	NA	NA	NA	NA	9
1,3-Dichloropropene	ND	0.005	NA	NA	NA	NA	NA	1.1
2-Butanone (MEK)	ND	17	NA	NA	NA	NA	NA	25,000
2-Hexanone (MBK)	ND	NA	NA	NA	NA	NA	NA	390
4-Methyl-2-pentanone (MIBK)	ND	NA	NA	NA	NA	NA	NA	3,100
Acetone	ND	25	NA	NA	NA	NA	NA	70,000
Benzene	ND	0.03	NA	NA	NA	NA	NA	0.8
Bromodichloromethane	ND	0.6	NA	NA	NA	NA	NA	10
Bromoform	ND	0.8	NA	NA	NA	NA	NA	53
Bromomethane	ND	0.2	NA	NA	NA	NA	NA	10
Carbon disulfide	ND	9	NA	NA	NA	NA	NA	720
Carbon Tetrachloride	ND	0.07	NA	NA	NA	NA	NA	0.3
Chlorobenzene	ND	1	NA	NA	NA	NA	NA	130
Chloroethane	ND	NA	NA	NA	NA	NA	NA	1,500
Chloroform	ND	0.3	NA	NA	NA	NA	NA	0.3
Chloromethane	ND	NA	NA	NA	NA	NA	NA	110
cis-1,2-Dichloroethene	ND	0.4	NA	NA	NA	NA	NA	780
cis-1,3-Dichloropropene	ND	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ND	0.4	NA	NA	NA	NA	NA	1,300
Ethylbenzene	ND	13	NA	NA	NA	NA	NA	400
Methylene chloride	ND	0.02	NA	NA	NA	NA	NA	13
Methyl-tert-butyl-ether (MTBE)	ND	0.32	NA	NA	NA	NA	NA	780
Styrene	ND	4	NA	NA	NA	NA	NA	1,500
Tetrachloroethene	ND	0.06	NA	NA	NA	NA	NA	11
Toluene	ND	12	NA	NA	NA	NA	NA	650
trans-1,2-Dichloroethene	ND	0.7	NA	NA	NA	NA	NA	1,600
trans-1,3-Dichloropropene	ND	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ND	0.06	NA	NA	NA	NA	NA	5
Vinyl Acetate	ND	10	NA	NA	NA	NA	NA	1,000
Vinyl Chloride	ND	0.01	NA	NA	NA	NA	NA	0.28
Xylenes, total	ND	5.6	NA	NA	NA	NA	NA	320

**Table 3k**  
**Soil Analytical Results**  
**ISGS Site 2615-258**  
**Citgo**  
**Chicago, Cook County, Illinois**

Sample ID	2615-258-B01	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4							
Sample Date	4/16/2014							
PID	0							
Sample pH	8.37							
Matrix	Soil							
<b>Semivolatile Organic Compounds (mg/kg)</b>								
1,2,4-Trichlorobenzene	ND	5	NA	NA	NA	NA	NA	780
1,2-Dichlorobenzene	ND	17	NA	NA	NA	NA	NA	560
1,3-Dichlorobenzene	ND	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ND	2	NA	NA	NA	NA	NA	11,000
2,4,5-Trichlorophenol	ND	26	NA	NA	NA	NA	NA	7,800
2,4,6-Trichlorophenol	ND	0.66	NA	NA	NA	NA	NA	58
2,4-Dichlorophenol	ND	0.48	NA	NA	NA	NA	NA	230
2,4-Dimethylphenol	ND	9	NA	NA	NA	NA	NA	1,600
2,4-Dinitrophenol	ND	3.3	NA	NA	NA	NA	NA	160
2,4-Dinitrotoluene	ND	0.25	NA	NA	NA	NA	NA	0.9
2,6-Dinitrotoluene	ND	0.26	NA	NA	NA	NA	NA	0.9
2-Chloronaphthalene	ND	NA	NA	NA	NA	NA	NA	6,300
2-Chlorophenol	ND	1.5	NA	NA	NA	NA	NA	390
2-Methylnaphthalene	<b>J 0.019</b>	NA	NA	NA	NA	NA	NA	310
2-Methylphenol	ND	15	NA	NA	NA	NA	NA	3,900
2-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	18
2-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ND	1.3	NA	NA	NA	NA	NA	1.3
3-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ND	NA	NA	NA	NA	NA	NA	6.3
4-Bromophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ND	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ND	0.7	NA	NA	NA	NA	NA	310
4-Chlorophenyl phenyl ether	ND	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	ND	NA	NA	NA	NA	NA	NA	7,800
4-Nitroaniline	ND	NA	NA	NA	NA	NA	NA	310
4-Nitrophenol	ND	NA	NA	NA	NA	NA	NA	630
Acenaphthene	ND	570	NA	NA	NA	NA	NA	4,700
Acenaphthylene	ND	85	NA	NA	NA	NA	NA	2,300
Anthracene	ND	12,000	NA	NA	NA	NA	NA	23,000
Benzo(a)anthracene	<b>J 0.015</b>	0.9	0.9	0.9	1.1	1.8	NA	0.9
Benzo(a)pyrene	ND	0.09	0.09	0.98	1.3	2.1	NA	0.98

**Table 3k**  
**Soil Analytical Results**  
**ISGS Site 2615-258**  
**Citgo**  
**Chicago, Cook County, Illinois**

Sample ID	2615-258-B01	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4							
Sample Date	4/16/2014							
PID	0							
Sample pH	8.37							
Matrix	Soil							
Benzo(b)fluoranthene	J 0.024	0.9	0.9	0.9	1.5	2.1	NA	0.9
Benzo(g,h,i)perylene	J 0.016	2,300	NA	NA	NA	NA	NA	2,300
Benzo(k)fluoranthene	ND	9	NA	NA	NA	NA	NA	9
Bis(2-chloroethoxy)methane	ND	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	ND	0.66	NA	NA	NA	NA	NA	0.66
bis(2-chloroisopropyl)ether	ND	NA	NA	NA	NA	NA	NA	3,100
Bis(2-ethylhexyl)phthalate	ND	46	NA	NA	NA	NA	NA	46
Butyl benzyl phthalate	ND	930	NA	NA	NA	NA	NA	930
Carbazole	ND	0.6	NA	NA	NA	NA	NA	32
Chrysene	J 0.027	88	NA	NA	NA	NA	NA	88
Dibenzo(a,h)anthracene	ND	0.09	0.09	0.15	0.2	0.42	NA	0.15
Dibenzofuran	ND	NA	NA	NA	NA	NA	NA	78
Diethyl phthalate	ND	470	NA	NA	NA	NA	NA	2,000
Dimethyl phthalate	ND	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	ND	2,300	NA	NA	NA	NA	NA	2,300
Di-n-octyl phthalate	ND	1,600	NA	NA	NA	NA	NA	1,600
Fluoranthene	J 0.024	3,100	NA	NA	NA	NA	NA	3,100
Fluorene	ND	560	NA	NA	NA	NA	NA	3,100
Hexachlorobenzene	ND	0.4	NA	NA	NA	NA	NA	0.4
Hexachlorobutadiene	ND	NA	NA	NA	NA	NA	NA	78
Hexachlorocyclopentadiene	ND	1.1	NA	NA	NA	NA	NA	10
Hexachloroethane	ND	0.5	NA	NA	NA	NA	NA	78
Indeno(1,2,3-cd)pyrene	J 0.01	0.9	0.9	0.9	0.9	1.6	NA	0.9
Isophorone	ND	8	NA	NA	NA	NA	NA	4,600
Naphthalene	J 0.0097	1.8	NA	NA	NA	NA	NA	170
Nitrobenzene	ND	0.26	NA	NA	NA	NA	NA	39
N-Nitrosodi-n-propylamine	ND	0.0018	NA	NA	NA	NA	NA	0.09
N-Nitrosodiphenylamine	ND	1	NA	NA	NA	NA	NA	130
Pentachlorophenol	ND	0.02	NA	NA	NA	NA	NA	3
Phenanthrene	0.064	210	NA	NA	NA	NA	NA	2,300
Phenol	ND	100	NA	NA	NA	NA	NA	23,000
Pyrene	0.038	2,300	NA	NA	NA	NA	NA	2,300

**Table 3k**  
**Soil Analytical Results**  
**ISGS Site 2615-258**  
**Citgo**  
**Chicago, Cook County, Illinois**

Sample ID	2615-258-B01	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4							
Sample Date	4/16/2014							
PID	0							
Sample pH	8.37							
Matrix	Soil							
<b>Inorganic Compounds, Total (mg/kg)</b>								
Antimony	ND	5	NA	NA	NA	NA	NA	31
Arsenic	4.8	11.3	NA	11.3	NA	13	NA	11.3
Barium	42	1,500	NA	NA	NA	NA	NA	5,500
Beryllium	0.46	22	NA	NA	NA	NA	NA	160
Boron	12	40	NA	NA	NA	NA	NA	16,000
Cadmium	0.58	5.2	NA	NA	NA	NA	NA	78
Calcium	B 55000	NA	NA	NA	NA	NA	NA	NA
Chromium	15	21	NA	NA	NA	NA	NA	230
Cobalt	7.6	20	NA	NA	NA	NA	NA	4,700
Copper	20	2,900	NA	NA	NA	NA	NA	2,900
Iron	14000	15,000	NA	15,000	NA	15,900	NA	NA
Lead	B 9.6	107	NA	NA	NA	NA	NA	400
Magnesium	B 25000	325,000	NA	NA	NA	NA	NA	325,000
Manganese	260	630	NA	630	NA	636	NA	1,600
Mercury	0.024	0.89	NA	NA	NA	NA	NA	10
Nickel	20	100	NA	NA	NA	NA	NA	1,600
Potassium	3000	NA	NA	NA	NA	NA	NA	NA
Selenium	J 0.3	1.3	NA	NA	NA	NA	NA	390
Silver	ND	4.4	NA	NA	NA	NA	NA	390
Sodium	4200	NA	NA	NA	NA	NA	NA	NA
Thallium	J 0.43	2.6	NA	NA	NA	NA	NA	6.3
Vanadium	16	550	NA	NA	NA	NA	NA	550
Zinc	28	5,100	NA	NA	NA	NA	NA	23,000



**Table 3k**  
**Soil Analytical Results**  
**ISGS Site 2615-258**  
**Citgo**  
**Chicago, Cook County, Illinois**

Sample ID	2615-258-B01		1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	7 Most Stringent TACO Tier 1 Residential Objective
Sample Depth (ft)	0-4								
Sample Date	4/16/2014								
PID	0								
Sample pH	8.37								
Matrix	Soil								
<b>SPLP Metals (mg/L)</b>									
Antimony	ND		m	NA	NA	NA	NA	0.006	NA
Barium	<b>J 0.46</b>		m	NA	NA	NA	NA	2	NA
Beryllium	<b>0.004</b>		m	NA	NA	NA	NA	0.004	NA
Boron	<b>0.86</b>		m	NA	NA	NA	NA	2	NA
Cadmium	ND		m	NA	NA	NA	NA	0.005	NA
Chromium	<b>0.1</b>		m	NA	NA	NA	NA	0.1	NA
Cobalt	<b>0.054</b>		m	NA	NA	NA	NA	1	NA
Iron	<b>72</b>	<b>6</b>	m	NA	NA	NA	NA	5	NA
Lead	<b>0.088</b>	<b>6</b>	m	NA	NA	NA	NA	0.0075	NA
Manganese	<b>1.1</b>	<b>6</b>	m	NA	NA	NA	NA	0.15	NA
Mercury	<b>J 0.00013</b>		m	NA	NA	NA	NA	0.002	NA
Nickel	<b>0.13</b>	<b>6</b>	m	NA	NA	NA	NA	0.1	NA
Selenium	ND		m	NA	NA	NA	NA	0.05	NA
Silver	ND		m	NA	NA	NA	NA	0.05	NA
Thallium	ND		m	NA	NA	NA	NA	0.002	NA
Zinc	<b>0.18</b>		m	NA	NA	NA	NA	5	NA
<b>TCLP Metals (mg/L)</b>									
Antimony	NT		m	NA	NA	NA	NA	0.006	NA
Barium	NT		m	NA	NA	NA	NA	2	NA
Beryllium	NT		m	NA	NA	NA	NA	0.004	NA
Boron	NT		m	NA	NA	NA	NA	2	NA
Cadmium	NT		m	NA	NA	NA	NA	0.005	NA
Chromium	NT		m	NA	NA	NA	NA	0.1	NA
Cobalt	NT		m	NA	NA	NA	NA	1	NA
Iron	<b>0.38</b>		m	NA	NA	NA	NA	5	NA
Lead	ND		m	NA	NA	NA	NA	0.0075	NA
Manganese	<b>0.61</b>	<b>6</b>	m	NA	NA	NA	NA	0.15	NA
Mercury	NT		m	NA	NA	NA	NA	0.002	NA
Nickel	<b>J 0.021</b>		m	NA	NA	NA	NA	0.1	NA
Selenium	NT		m	NA	NA	NA	NA	0.05	NA
Silver	NT		m	NA	NA	NA	NA	0.05	NA
Thallium	NT		m	NA	NA	NA	NA	0.002	NA
Zinc	NT		m	NA	NA	NA	NA	5	NA

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-75227-5  
Client Project/Site: IDOT - I90/94 - WO 061

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
4/30/2014 2:09:14 PM

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

### LINKS

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

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

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

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# Case Narrative

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Job ID: 500-75227-5**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative**  
**500-75227-5**

### Comments

No additional comments.

### Receipt

The samples were received on 4/17/2014 6:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.5° C, 3.8° C and 4.2° C.

### GC/MS VOA

Method(s) 8260B: The laboratory control samples (LCS) and / or laboratory control sample duplicates (LCSD) for batches 232182 and 232405 recovered outside control limits for the following analytes: Bromomethane, Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

### GC/MS Semi VOA

Method(s) 8270D: One surrogate recovery failed to meet control limits for the following samples, and the method blank (MB) for preparation batch 231930. All surrogate recoveries were greater than 10%. No further action was taken. 2615-252-B01 (500-75227-28)

No other analytical or quality issues were noted.

### Metals

Method(s) 6010B: The method blank (LB) for preparation batch 233284 contained Pb above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed. The following samples were affected: 500-75227-22, 24, 26, 27, 28 and 29.

No other analytical or quality issues were noted.

### General Chemistry

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

### Organic Prep

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

# Detection Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.0069		0.0047	0.0021	mg/Kg	1	*	*	8260B	Total/NA
2-Methylnaphthalene	0.036	J	0.040	0.0074	mg/Kg	1	*	*	8270D	Total/NA
Fluorene	0.023	J	0.040	0.0057	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.069		0.040	0.0056	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.020	J	0.040	0.0075	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.033	J	0.040	0.0080	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.026	J	0.040	0.011	mg/Kg	1	*	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.040	0.013	mg/Kg	1	*	*	8270D	Total/NA
Arsenic	7.3		0.61	0.12	mg/Kg	1	*	*	6010B	Total/NA
Barium	35		0.61	0.065	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.47		0.24	0.049	mg/Kg	1	*	*	6010B	Total/NA
Boron	12		3.0	0.61	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.71		0.12	0.015	mg/Kg	1	*	*	6010B	Total/NA
Calcium	53000		12	3.3	mg/Kg	1	*	*	6010B	Total/NA
Chromium	14		0.61	0.070	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	10		0.30	0.061	mg/Kg	1	*	*	6010B	Total/NA
Copper	26		0.61	0.12	mg/Kg	1	*	*	6010B	Total/NA
Iron	18000		12	5.0	mg/Kg	1	*	*	6010B	Total/NA
Lead	12		0.30	0.090	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	27000		6.1	1.3	mg/Kg	1	*	*	6010B	Total/NA
Manganese	360		0.61	0.12	mg/Kg	1	*	*	6010B	Total/NA
Nickel	26		0.61	0.12	mg/Kg	1	*	*	6010B	Total/NA
Potassium	2700		30	1.8	mg/Kg	1	*	*	6010B	Total/NA
Selenium	0.50	J	0.61	0.22	mg/Kg	1	*	*	6010B	Total/NA
Silver	0.033	J	0.30	0.022	mg/Kg	1	*	*	6010B	Total/NA
Sodium	1500		61	8.1	mg/Kg	1	*	*	6010B	Total/NA
Thallium	0.70		0.61	0.26	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	16		0.30	0.045	mg/Kg	1	*	*	6010B	Total/NA
Zinc	48		1.2	0.25	mg/Kg	1	*	*	6010B	Total/NA
Barium	0.10	J	0.50	0.050	mg/L	1			6010B	SPLP East
Boron	0.74		0.10	0.050	mg/L	1			6010B	SPLP East
Chromium	0.011	J	0.025	0.010	mg/L	1			6010B	SPLP East
Iron	4.2		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.017		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.11		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.010	J	0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.15		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.024		0.020	0.0078	mg/Kg	1	*	*	7471B	Total/NA
pH	8.22		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-75227-28	2615-252-B01	Solid	04/16/14 08:40	04/17/14 06:30

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

Date Collected: 04/16/14 08:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0069		0.0047	0.0021	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Bromomethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chloroform	<0.0047		0.0047	0.00055	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chloromethane	<0.0047		0.0047	0.0010	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Dibromochloromethane	<0.0047		0.0047	0.00083	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Tetrachloroethene	<0.0047		0.0047	0.00073	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Vinyl acetate	<0.0047		0.0047	0.00075	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Vinyl chloride	<0.0047		0.0047	0.0010	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122	04/17/14 07:20	04/21/14 15:41	1
Dibromofluoromethane	119		75 - 120	04/17/14 07:20	04/21/14 15:41	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	04/17/14 07:20	04/21/14 15:41	1
Toluene-d8 (Surr)	102		75 - 122	04/17/14 07:20	04/21/14 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

Date Collected: 04/16/14 08:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
<b>2-Methylnaphthalene</b>	<b>0.036</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
<b>Fluorene</b>	<b>0.023</b>	<b>J</b>	0.040	0.0057	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
<b>Phenanthrene</b>	<b>0.069</b>		0.040	0.0056	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
<b>Fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
<b>Pyrene</b>	<b>0.033</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

Date Collected: 04/16/14 08:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.026</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
<b>Benzo[g,h,i]perylene</b>	<b>0.023</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	04/21/14 19:11	04/23/14 19:49	1
Phenol-d5	58		31 - 110	04/21/14 19:11	04/23/14 19:49	1
Nitrobenzene-d5	55		25 - 115	04/21/14 19:11	04/23/14 19:49	1
2-Fluorobiphenyl	69		25 - 119	04/21/14 19:11	04/23/14 19:49	1
2,4,6-Tribromophenol	67		35 - 137	04/21/14 19:11	04/23/14 19:49	1
Terphenyl-d14	206	X	36 - 134	04/21/14 19:11	04/23/14 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Arsenic</b>	<b>7.3</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Barium</b>	<b>35</b>		0.61	0.065	mg/Kg	☼	04/18/14 08:50	04/22/14 05:48	1
<b>Beryllium</b>	<b>0.47</b>		0.24	0.049	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Boron</b>	<b>12</b>		3.0	0.61	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Cadmium</b>	<b>0.71</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Calcium</b>	<b>53000</b>		12	3.3	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Chromium</b>	<b>14</b>		0.61	0.070	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Cobalt</b>	<b>10</b>		0.30	0.061	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Copper</b>	<b>26</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Iron</b>	<b>18000</b>		12	5.0	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Lead</b>	<b>12</b>		0.30	0.090	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Magnesium</b>	<b>27000</b>		6.1	1.3	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Manganese</b>	<b>360</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Nickel</b>	<b>26</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Potassium</b>	<b>2700</b>		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Selenium</b>	<b>0.50</b>	<b>J</b>	0.61	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Silver</b>	<b>0.033</b>	<b>J</b>	0.30	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Sodium</b>	<b>1500</b>		61	8.1	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Thallium</b>	<b>0.70</b>		0.61	0.26	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Vanadium</b>	<b>16</b>		0.30	0.045	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
<b>Zinc</b>	<b>48</b>		1.2	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		04/25/14 09:15	04/25/14 18:20	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

Date Collected: 04/16/14 08:40

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/21/14 16:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Boron</b>	<b>0.74</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
Cobalt	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Iron</b>	<b>4.2</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/18/14 09:30	04/18/14 15:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		04/18/14 12:30	04/21/14 12:23	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.020	0.0078	mg/Kg	☆	04/22/14 13:25	04/23/14 12:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.22</b>		0.200	0.200	SU			04/23/14 14:49	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

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

## Glossary

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



## Login Sample Receipt Checklist

Client: Andrews Engineering Inc.

Job Number: 500-75227-5

**Login Number: 75227**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Lunt, Jeff T**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.2,3.5,3.8
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	















WorkOrder	ClientID	ProjectID	DateReceived	ClientSampID	CollectionDate	Matrix	SDG	TestNo	TestName	SampID	SampType	BatchID	PrepDate	RunID	AnalDate	AnalyteType	Analyte	R_Result	R_Qual	R_Units	R_MDL	R_PQL	R_DifFac
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_SPLP	Metals (ICP)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232395	4/18/2014	A	Lead	ND	U	mg/L	0.0075	0.0075	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_SPLP	Metals (ICP)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232395	4/18/2014	A	Manganese	ND	U	mg/L	0.010	0.025	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_SPLP	Metals (ICP)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232395	4/18/2014	A	Nickel	ND	U	mg/L	0.010	0.025	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_SPLP	Metals (ICP)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232395	4/18/2014	A	Selenium	ND	U	mg/L	0.010	0.050	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_SPLP	Metals (ICP)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232395	4/18/2014	A	Silver	ND	U	mg/L	0.010	0.025	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_SPLP	Metals (ICP)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232395	4/18/2014	A	Zinc	ND	U	mg/L	0.020	0.10	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_TCLP	Metals (ICP)_TCLP	LCS 500-233284/2-A	LCS	500-233284	4/25/2014	500-233541	4/25/2014	A	Lead	0.0980		mg/L	0.0075	0.0075	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6010B_TCLP	Metals (ICP)_TCLP	LB 500-233135/1-B	MBLK	500-233284	4/25/2014	500-233541	4/25/2014	A	Lead	0.0131		mg/L	0.0075	0.0075	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-252-B01	4/16/2014 8:40	Solid	500-75227-5	SW6020A_SPLP	Metals (ICP/MS)_SPLP	500-75227-28	SAMP	500-232176	4/18/2014	500-232273	4/18/2014	A	Antimony	ND	U	mg/L	0.0060	0.0060	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-252-B01	4/16/2014 8:40	Solid	500-75227-5	SW6020A_SPLP	Metals (ICP/MS)_SPLP	500-75227-28	SAMP	500-232176	4/18/2014	500-232273	4/18/2014	A	Thallium	ND	U	mg/L	0.0020	0.0020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LCS 500-232176/2-A	LCS	500-232176	4/18/2014	500-232273	4/18/2014	A	Antimony	0.446		mg/L	0.0060	0.0060	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LCS 500-232176/2-A	LCS	500-232176	4/18/2014	500-232273	4/18/2014	A	Thallium	0.101		mg/L	0.0020	0.0020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232273	4/18/2014	A	Antimony	ND	U	mg/L	0.0060	0.0060	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232273	4/18/2014	A	Thallium	ND	U	mg/L	0.0020	0.0020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-252-B01	4/16/2014 8:40	Solid	500-75227-5	SW7470A_SPLP	Mercury (CVAA)_SPLP	500-75227-28	SAMP	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	ND	U	mg/L	0.00010	0.00020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW7470A_SPLP	Mercury (CVAA)_SPLP	LCS 500-232206/13-A	LCS	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	0.00229		mg/L	0.00010	0.00020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW7470A_SPLP	Mercury (CVAA)_SPLP	LB 500-232030/1-C	MBLK	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	ND	U	mg/L	0.00010	0.00020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW7470A_SPLP	Mercury (CVAA)_SPLP	MB 500-232206/12-A	MBLK	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	ND	U	mg/L	0.00010	0.00020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-252-B01	4/16/2014 8:40	Solid	500-75227-5	SW7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	500-75227-28	SAMP	500-232650	4/22/2014	500-233067	4/23/2014	A	Mercury	0.024		mg/Kg	0.0078	0.020	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	LCS 500-232650/13-A	LCS	500-232650	4/22/2014	500-233067	4/23/2014	A	Mercury	0.190		mg/Kg	0.0066	0.017	1
500-75227-5	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-5	SW7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	MB 500-232650/12-A	MBLK	500-232650	4/22/2014	500-233067	4/23/2014	A	Mercury	ND	U	mg/Kg	0.0066	0.017	1



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-75227-6

Client Project/Site: IDOT - I90/94 - WO 061

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

4/30/2014 2:09:39 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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

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

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# Case Narrative

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Job ID: 500-75227-6**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-75227-6

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/17/2014 6:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.5° C, 3.8° C and 4.2° C.

#### GC/MS VOA

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

#### GC/MS Semi VOA

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

#### Metals

Method(s) 6010B: The method blank (LB) for preparation batch 233284 contained Pb above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed. The following samples were affected: 500-75227-22, 24, 26, 27, 28 and 29.

No other analytical or quality issues were noted.

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0097	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.019	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.064		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.024	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.038		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.015	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.024	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.8		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.55	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.22	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.8	0.55	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.58		0.11	0.014	mg/Kg	1	☼	6010B	Total/NA
Calcium	55000		11	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.064	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.6		0.28	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	9.6		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.5	1.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		28	1.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.55	0.20	mg/Kg	1	☼	6010B	Total/NA
Sodium	4200		55	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.43	J	0.55	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.041	mg/Kg	1	☼	6010B	Total/NA
Zinc	28		1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Iron	0.38		0.20	0.20	mg/L	1		6010B	TCPL
Manganese	0.61		0.025	0.010	mg/L	1		6010B	TCPL
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCPL
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0040		0.0040	0.0040	mg/L	1		6010B	SPLP East
Boron	0.86		0.10	0.050	mg/L	1		6010B	SPLP East
Chromium	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	72		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.088		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.18		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.00013	J	0.00020	0.00010	mg/L	1		7470A	SPLP East
Mercury	0.024		0.019	0.0076	mg/Kg	1	☼	7471B	Total/NA
pH	8.37		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-75227-29	2615-258-B01	Solid	04/16/14 08:36	04/17/14 06:30

---

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

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	04/17/14 07:20	04/22/14 16:45	1
Dibromofluoromethane	109		75 - 120	04/17/14 07:20	04/22/14 16:45	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/17/14 07:20	04/22/14 16:45	1
Toluene-d8 (Surr)	112		75 - 122	04/17/14 07:20	04/22/14 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Naphthalene</b>	<b>0.0097</b>	<b>J</b>	0.038	0.0059	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>2-Methylnaphthalene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Phenanthrene</b>	<b>0.064</b>		0.038	0.0053	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Fluoranthene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Pyrene</b>	<b>0.038</b>		0.038	0.0076	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Benzo[a]anthracene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Benzo[b]fluoranthene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0099	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	04/21/14 19:11	04/25/14 20:28	1
Phenol-d5	55		31 - 110	04/21/14 19:11	04/25/14 20:28	1
Nitrobenzene-d5	47		25 - 115	04/21/14 19:11	04/25/14 20:28	1
2-Fluorobiphenyl	55		25 - 119	04/21/14 19:11	04/25/14 20:28	1
2,4,6-Tribromophenol	51		35 - 137	04/21/14 19:11	04/25/14 20:28	1
Terphenyl-d14	69		36 - 134	04/21/14 19:11	04/25/14 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Arsenic</b>	<b>4.8</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Barium</b>	<b>42</b>		0.55	0.059	mg/Kg	☼	04/18/14 08:50	04/22/14 05:53	1
<b>Beryllium</b>	<b>0.46</b>		0.22	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Boron</b>	<b>12</b>		2.8	0.55	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Cadmium</b>	<b>0.58</b>		0.11	0.014	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Calcium</b>	<b>55000</b>		11	3.0	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Chromium</b>	<b>15</b>		0.55	0.064	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Cobalt</b>	<b>7.6</b>		0.28	0.055	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Copper</b>	<b>20</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Iron</b>	<b>14000</b>		11	4.5	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Lead</b>	<b>9.6</b>		0.28	0.082	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Magnesium</b>	<b>25000</b>		5.5	1.1	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Manganese</b>	<b>260</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Nickel</b>	<b>20</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Potassium</b>	<b>3000</b>		28	1.7	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Selenium</b>	<b>0.30</b>	<b>J</b>	0.55	0.20	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Sodium</b>	<b>4200</b>		55	7.4	mg/Kg	☼	04/18/14 08:50	04/22/14 05:53	1
<b>Thallium</b>	<b>0.43</b>	<b>J</b>	0.55	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Vanadium</b>	<b>16</b>		0.28	0.041	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Zinc</b>	<b>28</b>		1.1	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>0.38</b>		0.20	0.20	mg/L		04/25/14 09:15	04/25/14 18:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/25/14 09:15	04/25/14 18:26	1
<b>Manganese</b>	<b>0.61</b>		0.025	0.010	mg/L		04/25/14 09:15	04/25/14 18:26	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.021	J	0.025	0.010	mg/L		04/25/14 09:15	04/25/14 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		04/18/14 09:30	04/21/14 16:38	1
Beryllium	0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:55	1
Boron	0.86		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:55	1
Chromium	0.10		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Cobalt	0.054		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Iron	72		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:55	1
Lead	0.088		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:55	1
Manganese	1.1		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Nickel	0.13		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Zinc	0.18		0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/18/14 09:30	04/18/14 16:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.00010	mg/L		04/18/14 12:30	04/21/14 12:24	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0076	mg/Kg	☼	04/22/14 13:25	04/23/14 12:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			04/23/14 14:51	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

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

## Glossary

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



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
		Project Name: <u>I 90/94 Chicago Cook</u>	COC No.: <u>1</u> of <u>1</u>
		Project No.: <u>IDOT 2013-061</u>	Lab Job No.: <u>500-75227</u>
		TAP: <del>10 BD</del> <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp:
		Sampler: <u>CF</u>	

**Special Instructions:**  
 See Table 2 for complete parameter lists and minimum reporting limits.  
 \* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.  
 \*\* If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments								
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP** TCLP Metals	pH	% Solids		Waste Characterization							
29	2605-258-B01	4/16	8:36	S	X	X						X	X	X								0-41	
	<del>2605-258-B02</del>			S	<del>X</del>	<del>X</del>						<del>X</del>	<del>X</del>	<del>X</del>									
				</																			

## Login Sample Receipt Checklist

Client: Andrews Engineering Inc.

Job Number: 500-75227-6

**Login Number: 75227**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Lunt, Jeff T**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.2,3.5,3.8
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	















WorkOrder	ClientID	ProjectID	DateReceived	ClientSampID	CollectionDate	Matrix	SDG	TestNo	TestName	SampID	SampType	BatchID	PrepDate	RunID	AnalDate	AnalyteType	Analyte	R_Result	R_Qual	R_Units	R_MDL	R_PQL	R_DifFac
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW6010B_TCLP	Metals (ICP)_TCLP	LB 500-233135/1-B	MBLK	500-233284	4/25/2014	500-233541	4/25/2014	A	Lead	0.0131		mg/L	0.0075	0.0075	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW6010B_TCLP	Metals (ICP)_TCLP	LB 500-233135/1-B	MBLK	500-233284	4/25/2014	500-233541	4/25/2014	A	Manganese	ND	U	mg/L	0.010	0.025	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW6010B_TCLP	Metals (ICP)_TCLP	LB 500-233135/1-B	MBLK	500-233284	4/25/2014	500-233541	4/25/2014	A	Nickel	ND	U	mg/L	0.010	0.025	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-258-B01	4/16/2014 8:36	Solid	500-75227-6	SW6020A_SPLP	Metals (ICP/MS)_SPLP	500-75227-29	SAMP	500-232176	4/18/2014	500-232273	4/18/2014	A	Antimony	ND	U	mg/L	0.0060	0.0060	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-258-B01	4/16/2014 8:36	Solid	500-75227-6	SW6020A_SPLP	Metals (ICP/MS)_SPLP	500-75227-29	SAMP	500-232176	4/18/2014	500-232273	4/18/2014	A	Thallium	ND	U	mg/L	0.0020	0.0020	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LCS 500-232176/2-A	LCS	500-232176	4/18/2014	500-232273	4/18/2014	A	Antimony	0.446		mg/L	0.0060	0.0060	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LCS 500-232176/2-A	LCS	500-232176	4/18/2014	500-232273	4/18/2014	A	Thallium	0.101		mg/L	0.0020	0.0020	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232273	4/18/2014	A	Antimony	ND	U	mg/L	0.0060	0.0060	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW6020A_SPLP	Metals (ICP/MS)_SPLP	LB 500-232030/1-B	MBLK	500-232176	4/18/2014	500-232273	4/18/2014	A	Thallium	ND	U	mg/L	0.0020	0.0020	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-258-B01	4/16/2014 8:36	Solid	500-75227-6	SW7470A_SPLP	Mercury (CVAA)_SPLP	500-75227-29	SAMP	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	0.00013	J	mg/L	0.00010	0.00020	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW7470A_SPLP	Mercury (CVAA)_SPLP	LCS 500-232206/13-A	LCS	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	0.00229		mg/L	0.00010	0.00020	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW7470A_SPLP	Mercury (CVAA)_SPLP	LB 500-232030/1-C	MBLK	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	ND	U	mg/L	0.00010	0.00020	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW7470A_SPLP	Mercury (CVAA)_SPLP	MB 500-232206/12-A	MBLK	500-232206	4/18/2014	500-232484	4/21/2014	A	Mercury	ND	U	mg/L	0.00010	0.00020	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061	4/17/2014 6:30	2615-258-B01	4/16/2014 8:36	Solid	500-75227-6	SW7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	500-75227-29	SAMP	500-232650	4/22/2014	500-233067	4/23/2014	A	Mercury	0.024		mg/Kg	0.0076	0.019	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	LCS 500-232650/13-A	LCS	500-232650	4/22/2014	500-233067	4/23/2014	A	Mercury	0.190		mg/Kg	0.0066	0.017	1
500-75227-6	Andrews Engineering Inc.	IDOT - 190/94 - WO 061				Solid	500-75227-6	SW7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	MB 500-232650/12-A	MBLK	500-232650	4/22/2014	500-233067	4/23/2014	A	Mercury	ND	U	mg/Kg	0.0066	0.017	1