



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: FAU 297: US 6 (Southwest Hwy) at 179th St Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
11728 to 11750 Ballinary Court and 17707 to 17727 Mayher Drive

City: Orland Park 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: 41.56519789 Longitude: -87.90316701  
(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: FAU 297: US 6 (Southwest Hwy) at 179th St

Latitude: 41.56519789 Longitude: -87.90316701

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 RT1-1 THROUGH RT1-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2532-1. 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: 500-85076-1

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

I, Kurt T. Fischer 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

Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

11/18/14

Date:



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

**Summary Table of ISGS Site No. 2532-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	RT1-1(0-5)-092914	RT1-1(5-10)-092914	RT1-1(5-10)-092914D	RT1-2(0-5)-092914	RT1-2(5-10)-092914	RT1-3(0-5)-092914	RT1-3(5-10)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	RT1-1	RT1-1	RT1-1	RT1-2	RT1-2	RT1-3	RT1-3	
Depth	0 - 5	5 - 10	5 - 10	0 - 5	5 - 10	0 - 5	5 - 10	
ISGS Site Number	2532-1	2532-1	2532-1	2532-1	2532-1	2532-1	2532-1	
Parameter								
Laboratory pH (s.u.)	8.24	8.24	7.76	7.51	8.41	8.61	8.23	<6.25, >9.0
<b>VOCs (ug/kg)</b>								
Acetone	ND	21	40	ND	ND	ND	6.4	25000
Methyl ethyl ketone	ND	ND	5.8 J	ND	ND	ND	ND	---
<b>SVOCS (ug/kg)</b>								
2-Methylnaphthalene	ND	64	41	ND	ND	ND	13 J	---
Benzo(a)anthracene	ND	ND	ND	ND	ND	13 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	ND	ND	ND	16 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	30 J	21 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	13 J	---
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	13 J	ND	9000
bis(2-Ethylhexyl)phthalate	150 J	ND	ND	ND	ND	ND	ND	46000
Chrysene	ND	ND	ND	ND	ND	16 J	17 J	88000
Fluoranthene	ND	ND	ND	ND	ND	26 J	19 J	3100000
Phenanthrene	ND	49	ND	ND	ND	12 J	19 J	---
Pyrene	ND	ND	ND	ND	ND	25 J	22 J	2300000
<b>Total Metals (mg/kg)</b>								
Arsenic, Total	8.4 J	9.2 J	7.3 J	8.1 J	9.2 J	8.5 J	3.9 J	11.3 / 13
Barium, Total	40 J	39 J	76 J	68 J	27 J	33 J	37 J	1500
Beryllium, Total	0.52	0.53	0.66	0.74	0.41	0.5	0.5	22
Cadmium, Total	0.23 J-	0.26 J-	0.17 J-	ND	0.42 J-	0.4 J-	0.32 J-	5.2
Calcium, Total	22000 J	25000 J	12000 J	1900 J	53000 J	36000 J	51000 J	---
Chromium, Total	15 J	16 J	19 J	20 J	12 J	14 J	16 J	21
Cobalt, Total	9.7 J	10 J	12 J	12 J	7.9 J	10 J	5.5 J	20
Copper, Total	23 J-	26 J-	19 J-	23 J-	25 J-	25 J-	18 J-	2900
Iron, Total	20000 J-	23000 J-	21000 J-	24000 J-	18000 J-	19000 J-	16000 J-	15000 / 15900
Lead, Total	17 J-	16 J-	12 J-	15 J-	12 J-	15 J-	8.5 J-	107
Magnesium, Total	14000 J	16000 J	10000 J	4600 J	30000 J	19000 J	23000 J	325000
Manganese, Total	420 J	400 J	370 J	630 J	350 J	350 J	240 J	630 / 636
Mercury, Total	0.026	0.028	0.022	0.03	0.022	0.024	0.022	0.89
Nickel, Total	24 J	26 J	33 J	30 J	22 J	24 J	19 J	100
Potassium, Total	2100 J	2200 J	2500 J	1700 J	2000 J	2200 J	2500 J	---
Selenium, Total	ND	ND	ND	0.25 J	ND	ND	ND	1.3
Sodium, Total	88 J+	97 J+	87 J+	94 J+	260 J+	1200 J+	460 J+	---
Thallium, Total	1.3	0.97	1	1.4	1.2	1.1	0.75	2.6
Vanadium, Total	17 J	17 J	19 J	22 J	15 J	18 J	18 J	550
Zinc, Total	55 J-	56 J-	46 J-	51 J-	56 J-	55 J-	40 J-	5100

**Summary Table of ISGS Site No. 2532-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	RT1-1(0-5)-092914	RT1-1(5-10)-092914	RT1-1(5-10)-092914D	RT1-2(0-5)-092914	RT1-2(5-10)-092914	RT1-3(0-5)-092914	RT1-3(5-10)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	RT1-1	RT1-1	RT1-1	RT1-2	RT1-2	RT1-3	RT1-3	
Depth	0 - 5	5 - 10	5 - 10	0 - 5	5 - 10	0 - 5	5 - 10	
ISGS Site Number	2532-1	2532-1	2532-1	2532-1	2532-1	2532-1	2532-1	
Parameter								
<b>TCLP Metals (mg/l)</b>								
Barium, TCLP	0.33 J	0.33 J	0.56	0.34 J	0.23 J	0.29 J	0.34 J	2
Cadmium, TCLP	ND	0.0026 J	0.0023 J	ND	0.002 J	0.0023 J	ND	0.005
Cobalt, TCLP	ND	0.016 J	0.021 J	ND	ND	ND	ND	1
Copper, TCLP	0.041	0.047	0.069	0.034	0.067	0.034	0.021 J	0.65
Iron, TCLP	ND	ND	0.23	ND	0.33	ND	ND	5
Lead, TCLP	ND	ND	0.011	ND	0.0084	ND	ND	0.0075
Manganese, TCLP	0.11	7.1	5.8	0.13	0.63	2.6	1.2	0.15
Nickel, TCLP	ND	0.017 J	0.017 J	ND	ND	ND	0.022 J	0.1
<b>SPLP Metals (mg/l)</b>								
Arsenic, SPLP	0.048 J	ND	ND	0.021 J	0.051	0.085	ND	0.05
Barium, SPLP	0.21 J	0.13 J	0.11 J	0.19 J	0.22 J	0.54	0.061 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.007	ND	0.004
Chromium, SPLP	0.084	0.031	0.018 J	0.057	0.078	0.16	0.011 J	0.1
Cobalt, SPLP	0.029	0.013 J	ND	0.017 J	0.03	0.063	ND	1
Copper, SPLP	0.1	0.042 J	0.021 J	0.057	0.14	0.27	0.017 J	0.65
Iron, SPLP	100 J+	27 J	13 J	56 J+	100 J+	190 J+	5.2 J+	5
Lead, SPLP	0.053	0.016 J	0.0079 J	0.023	0.049	0.17	ND	0.0075
Manganese, SPLP	0.42	0.81 J	0.38 J	0.29	0.4	1.3	0.11	0.15
Mercury, SPLP	0.0002	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.1	0.034	0.018 J	0.06	0.12	0.22	ND	0.1
Zinc, SPLP	0.25	0.092 J	0.061 J	0.14	0.32	0.55	0.051 J	5

**Summary Table of ISGS Site No. 2532-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	RT1-4(0-5)-092914	RT1-4(5-10)-092914	RT1-5(0-5)-092914	RT1-5(5-10)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	RT1-4	RT1-4	RT1-5	RT1-5	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	
ISGS Site Number	2532-1	2532-1	2532-1	2532-1	
Parameter					
Laboratory pH (s.u.)	8.36	8.16	7.97	8.43	<6.25, >9.0
<b>VOCs (ug/kg)</b>					
Acetone	ND	6.7	31	18	25000
Methyl ethyl ketone	ND	ND	ND	ND	---
<b>SVOCs (ug/kg)</b>					
2-Methylnaphthalene	ND	ND	ND	ND	---
Benzo(a)anthracene	ND	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	ND	---
Benzo(k)fluoranthene	ND	ND	ND	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Chrysene	ND	ND	ND	ND	88000
Fluoranthene	ND	ND	ND	ND	3100000
Phenanthrene	ND	11 J	ND	ND	---
Pyrene	ND	11 J	ND	ND	2300000
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	7.7 J	4.5 J	7.2 J	12 J	11.3 / 13
Barium, Total	50 J	81 J	25 J	42 J	1500
Beryllium, Total	0.53	0.51	0.36	0.62	22
Cadmium, Total	0.55 J-	0.34 J-	0.66 J-	0.83 J-	5.2
Calcium, Total	41000 J	52000 J	120000 J	44000 J	---
Chromium, Total	16 J	16 J	12 J	18 J	21
Cobalt, Total	15 J	8 J	6.4 J	13 J	20
Copper, Total	23 J-	19 J-	18 J-	23 J-	2900
Iron, Total	19000 J-	16000 J-	14000 J-	25000 J-	15000 / 15900
Lead, Total	12 J-	8.7 J-	70 J-	12 J-	107
Magnesium, Total	21000 J	24000 J	71000 J	22000 J	325000
Manganese, Total	520 J	330 J	390 J	380 J	630 / 636
Mercury, Total	0.021	0.019	0.033	0.042	0.89
Nickel, Total	31 J	21 J	16 J	33 J	100
Potassium, Total	2400 J	2600 J	1700 J	2600 J	---
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	1000 J+	430 J+	770 J+	350 J+	---
Thallium, Total	1.4	0.84	1	1.5	2.6
Vanadium, Total	19 J	18 J	13 J	22 J	550
Zinc, Total	54 J-	41 J-	50 J-	52 J-	5100

**Summary Table of ISGS Site No. 2532-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	RT1-4(0-5)-092914	RT1-4(5-10)-092914	RT1-5(0-5)-092914	RT1-5(5-10)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	RT1-4	RT1-4	RT1-5	RT1-5	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	
ISGS Site Number	2532-1	2532-1	2532-1	2532-1	
Parameter					
<b>TCLP Metals (mg/l)</b>					
Barium, TCLP	0.32 J	0.55	0.34 J	0.29 J	2
Cadmium, TCLP	ND	ND	0.0027 J	ND	0.005
Cobalt, TCLP	ND	ND	0.019 J	ND	1
Copper, TCLP	0.038	0.018 J	0.044	0.051	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	0.016	ND	0.0075
Manganese, TCLP	1.2	1.6	11	3.5	0.15
Nickel, TCLP	ND	0.016 J	0.021 J	0.014 J	0.1
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	ND	0.023 J	0.084	0.035 J	0.05
Barium, SPLP	0.07 J	0.34 J	0.4 J	0.32 J	2
Beryllium, SPLP	ND	ND	0.0056	ND	0.004
Chromium, SPLP	0.01 J	0.095	0.12	0.087	0.1
Cobalt, SPLP	ND	0.032	0.069	0.033	1
Copper, SPLP	0.01 J	0.092	0.24	0.12	0.65
Iron, SPLP	5.7 J+	84 J+	170 J+	86 J+	5
Lead, SPLP	ND	0.04	0.17	0.042	0.0075
Manganese, SPLP	0.16	0.69	1.6	1.1	0.15
Mercury, SPLP	ND	ND	0.00027	ND	0.002
Nickel, SPLP	0.011 J	0.1	0.2	0.1	0.1
Zinc, SPLP	0.045 J	0.2	0.51	0.24	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.

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: 500-85076-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/16/2014 1:34:41 PM

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

### LINKS

Review your project  
results through  
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Have a Question?



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[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.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(0-5)-092914**

**Lab Sample ID: 500-85076-6**

**Date Collected: 09/29/14 12:40**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31		6.0	2.6	ug/Kg	☼		10/09/14 23:41	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		10/09/14 23:41	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/09/14 23:41	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/09/14 23:41	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/09/14 23:41	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/09/14 23:41	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/09/14 23:41	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/09/14 23:41	1
Chloroethane	<6.0 *		6.0	1.6	ug/Kg	☼		10/09/14 23:41	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/09/14 23:41	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/09/14 23:41	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/09/14 23:41	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/09/14 23:41	1
Dibromochloromethane	<6.0		6.0	1.1	ug/Kg	☼		10/09/14 23:41	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/09/14 23:41	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/09/14 23:41	1
1,1-Dichloroethene	<6.0		6.0	0.98	ug/Kg	☼		10/09/14 23:41	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	☼		10/09/14 23:41	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/09/14 23:41	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/09/14 23:41	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/09/14 23:41	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 23:41	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/09/14 23:41	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 23:41	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	☼		10/09/14 23:41	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/09/14 23:41	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/09/14 23:41	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/09/14 23:41	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/09/14 23:41	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/09/14 23:41	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/09/14 23:41	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/09/14 23:41	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/09/14 23:41	1
Trichloroethene	<6.0		6.0	1.0	ug/Kg	☼		10/09/14 23:41	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/09/14 23:41	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/09/14 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/09/14 23:41	1
Dibromofluoromethane	103		75 - 120		10/09/14 23:41	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		10/09/14 23:41	1
Toluene-d8 (Surr)	100		75 - 122		10/09/14 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(0-5)-092914**

**Lab Sample ID: 500-85076-6**

**Date Collected: 09/29/14 12:40**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
4-Chlorophenyl phenyl ether	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Benzo[k]fluoranthene	<39 *		39	12	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Carbazole	<200 *		200	100	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Chrysene	<39		39	11	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Dibenz(a,h)anthracene	<39 *		39	7.6	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Dibenzofuran	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(0-5)-092914**

**Lab Sample ID: 500-85076-6**

**Date Collected: 09/29/14 12:40**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.8**

**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	<39		39	10	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Isophorone	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Naphthalene	<39		39	6.1	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Phenol	<200		200	88	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Pyrene	<39		39	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		35 - 137				10/09/14 07:00	10/16/14 01:14	1
2-Fluorobiphenyl	36		25 - 119				10/09/14 07:00	10/16/14 01:14	1
2-Fluorophenol	34		25 - 110				10/09/14 07:00	10/16/14 01:14	1
Nitrobenzene-d5	36		25 - 115				10/09/14 07:00	10/16/14 01:14	1
Phenol-d5	33		31 - 110				10/09/14 07:00	10/16/14 01:14	1
Terphenyl-d14	60		36 - 134				10/09/14 07:00	10/16/14 01:14	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		10/13/14 08:45	10/14/14 19:46	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 19:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 19:46	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 19:46	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:46	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:46	1
<b>Copper</b>	<b>0.044</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:46	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 19:46	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 19:46	1
<b>Manganese</b>	<b>11</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:46	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:46	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 19:46	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:46	1
<b>Zinc</b>	<b>0.071</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.084</b>		0.050	0.010	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Beryllium</b>	<b>0.0056</b>		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 17:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Cobalt</b>	<b>0.069</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Lead</b>	<b>0.17</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:07	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 17:07	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(0-5)-092914**

**Lab Sample ID: 500-85076-6**

Date Collected: 09/29/14 12:40

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 17:07	1
Zinc	0.51		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 17:07	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Arsenic	7.2		0.58	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Barium	25		0.58	0.062	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Beryllium	0.36		0.23	0.046	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Cadmium	0.66		0.12	0.015	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Calcium	120000		120	31	mg/Kg	☼	10/09/14 10:30	10/11/14 16:29	10
Chromium	12	B	0.58	0.067	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Cobalt	6.4		0.29	0.058	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Copper	18		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Iron	14000		12	4.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Lead	70		0.29	0.086	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Magnesium	71000		58	12	mg/Kg	☼	10/09/14 10:30	10/11/14 16:29	10
Manganese	390		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Nickel	16		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Potassium	1700	B	29	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Selenium	<0.58	L	0.58	0.21	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Silver	0.040	J B	0.29	0.021	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Sodium	770		58	7.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Thallium	1.0		0.58	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Vanadium	13		0.29	0.043	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1
Zinc	50	B	1.2	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 13:05	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		19	7.3	ug/Kg	☼	10/08/14 11:00	10/09/14 08:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			10/09/14 13:03	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(5-10)-092914**

**Lab Sample ID: 500-85076-7**

**Date Collected: 09/29/14 12:45**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	18		6.0	2.6	ug/Kg	☼		10/10/14 00:05	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/10/14 00:05	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 00:05	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/10/14 00:05	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/10/14 00:05	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 00:05	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 00:05	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/10/14 00:05	1
Chloroethane	<6.0 *		6.0	1.6	ug/Kg	☼		10/10/14 00:05	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/10/14 00:05	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 00:05	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/10/14 00:05	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 00:05	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 00:05	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/10/14 00:05	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/10/14 00:05	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/10/14 00:05	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/10/14 00:05	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 00:05	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 00:05	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/10/14 00:05	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 00:05	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/10/14 00:05	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 00:05	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/10/14 00:05	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 00:05	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 00:05	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/10/14 00:05	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/10/14 00:05	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/10/14 00:05	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 00:05	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 00:05	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/10/14 00:05	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/10/14 00:05	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 00:05	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/10/14 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 00:05	1
Dibromofluoromethane	98		75 - 120		10/10/14 00:05	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		10/10/14 00:05	1
Toluene-d8 (Surr)	99		75 - 122		10/10/14 00:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(5-10)-092914**

**Lab Sample ID: 500-85076-7**

**Date Collected: 09/29/14 12:45**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
4-Chlorophenyl phenyl ether	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Anthracene	<39		39	6.5	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Benzo[k]fluoranthene	<39 *		39	11	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Carbazole	<200 *		200	100	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Chrysene	<39		39	11	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Dibenz(a,h)anthracene	<39 *		39	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Dibenzofuran	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Hexachloroethane	<200		200	59	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(5-10)-092914**

**Lab Sample ID: 500-85076-7**

**Date Collected: 09/29/14 12:45**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.2**

**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	<39		39	10	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Isophorone	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Naphthalene	<39		39	6.0	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Phenanthrene	<39		39	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Phenol	<200		200	87	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Pyrene	<39		39	7.7	ug/Kg	☼	10/09/14 07:00	10/16/14 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				10/09/14 07:00	10/16/14 01:35	1
2-Fluorobiphenyl	46		25 - 119				10/09/14 07:00	10/16/14 01:35	1
2-Fluorophenol	52		25 - 110				10/09/14 07:00	10/16/14 01:35	1
Nitrobenzene-d5	54		25 - 115				10/09/14 07:00	10/16/14 01:35	1
Phenol-d5	48		31 - 110				10/09/14 07:00	10/16/14 01:35	1
Terphenyl-d14	74		36 - 134				10/09/14 07:00	10/16/14 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 19:51	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 19:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 19:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 19:51	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:51	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:51	1
<b>Copper</b>	<b>0.051</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:51	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 19:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 19:51	1
<b>Manganese</b>	<b>3.5</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:51	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 19:51	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:51	1
<b>Zinc</b>	<b>0.056</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.035</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Chromium</b>	<b>0.087</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Cobalt</b>	<b>0.033</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Iron</b>	<b>86</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Lead</b>	<b>0.042</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:13	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 17:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-5(5-10)-092914**

**Lab Sample ID: 500-85076-7**

Date Collected: 09/29/14 12:45

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 17:13	1
Zinc	0.24		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 17:13	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	☼	10/09/14 10:30	10/10/14 21:23	1
Arsenic	12		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Barium	42		0.56	0.060	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Beryllium	0.62		0.22	0.045	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Cadmium	0.83		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Calcium	44000		11	3.0	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Chromium	18	B	0.56	0.065	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Cobalt	13		0.28	0.056	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Copper	23		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Iron	25000		11	4.6	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Lead	12		0.28	0.083	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Magnesium	22000		5.6	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Manganese	380		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Nickel	33		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Potassium	2600	B	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Sodium	350		56	7.5	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Thallium	1.5		0.56	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Vanadium	22		0.28	0.041	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1
Zinc	52	B	1.1	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:13	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	42		18	7.2	ug/Kg	☼	10/08/14 11:00	10/09/14 08:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			10/09/14 13:10	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(0-5)-092914**

**Lab Sample ID: 500-85076-8**

**Date Collected: 09/29/14 13:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		10/10/14 00:29	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		10/10/14 00:29	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 00:29	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/10/14 00:29	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		10/10/14 00:29	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 00:29	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		10/10/14 00:29	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		10/10/14 00:29	1
Chloroethane	<5.8 *		5.8	1.6	ug/Kg	☼		10/10/14 00:29	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		10/10/14 00:29	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 00:29	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		10/10/14 00:29	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		10/10/14 00:29	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 00:29	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		10/10/14 00:29	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 00:29	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		10/10/14 00:29	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		10/10/14 00:29	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		10/10/14 00:29	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 00:29	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/10/14 00:29	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/10/14 00:29	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/10/14 00:29	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/10/14 00:29	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		10/10/14 00:29	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		10/10/14 00:29	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 00:29	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		10/10/14 00:29	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		10/10/14 00:29	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		10/10/14 00:29	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 00:29	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 00:29	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		10/10/14 00:29	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		10/10/14 00:29	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 00:29	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/10/14 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 00:29	1
Dibromofluoromethane	98		75 - 120		10/10/14 00:29	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		10/10/14 00:29	1
Toluene-d8 (Surr)	100		75 - 122		10/10/14 00:29	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	40	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(0-5)-092914**

**Lab Sample ID: 500-85076-8**

**Date Collected: 09/29/14 13:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
4-Chlorophenyl phenyl ether	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Carbazole	<190 *		190	96	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Dibenzofuran	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Fluorene	<37		37	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(0-5)-092914**

**Lab Sample ID: 500-85076-8**

**Date Collected: 09/29/14 13:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.6**

**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	<37		37	9.7	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Naphthalene	<37		37	5.7	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Phenol	<190		190	83	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		35 - 137				10/09/14 07:00	10/16/14 01:56	1
2-Fluorobiphenyl	62		25 - 119				10/09/14 07:00	10/16/14 01:56	1
2-Fluorophenol	60		25 - 110				10/09/14 07:00	10/16/14 01:56	1
Nitrobenzene-d5	62		25 - 115				10/09/14 07:00	10/16/14 01:56	1
Phenol-d5	57		31 - 110				10/09/14 07:00	10/16/14 01:56	1
Terphenyl-d14	87		36 - 134				10/09/14 07:00	10/16/14 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 19:56	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 19:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 19:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 19:56	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:56	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:56	1
<b>Copper</b>	<b>0.038</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:56	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 19:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 19:56	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:56	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:56	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 19:56	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:56	1
<b>Zinc</b>	<b>0.047</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 19:56	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		10/10/14 09:45	10/11/14 17:19	1
<b>Barium</b>	<b>0.070</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 17:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 17:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 17:19	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:19	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:19	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:19	1
<b>Iron</b>	<b>5.7</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 17:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 17:19	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:19	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:19	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 17:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(0-5)-092914**

**Lab Sample ID: 500-85076-8**

Date Collected: 09/29/14 13:00

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 17:19	1
Zinc	0.045	J	0.10	0.020	mg/L		10/10/14 09:45	10/11/14 17:19	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	☼	10/09/14 10:30	10/10/14 21:30	1
Arsenic	7.7		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Barium	50		0.56	0.060	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Beryllium	0.53		0.22	0.045	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Cadmium	0.55		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Calcium	41000		11	3.0	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Chromium	16	B	0.56	0.065	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Cobalt	15		0.28	0.056	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Copper	23		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Iron	19000		11	4.6	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Lead	12		0.28	0.084	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Magnesium	21000		5.6	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Manganese	520		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Nickel	31		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Potassium	2400	B	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Sodium	1000		56	7.5	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Thallium	1.4		0.56	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Vanadium	19		0.28	0.042	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1
Zinc	54	B	1.1	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:19	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	21		17	6.6	ug/Kg	☼	10/08/14 11:00	10/09/14 08:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			10/09/14 13:17	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(5-10)-092914**

**Lab Sample ID: 500-85076-9**

**Date Collected: 09/29/14 13:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7		5.9	2.6	ug/Kg	☼		10/10/14 00:53	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/10/14 00:53	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/10/14 00:53	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/10/14 00:53	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/10/14 00:53	1
Carbon disulfide	<5.9		5.9	0.89	ug/Kg	☼		10/10/14 00:53	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/10/14 00:53	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/10/14 00:53	1
Chloroethane	<5.9 *		5.9	1.6	ug/Kg	☼		10/10/14 00:53	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/10/14 00:53	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 00:53	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		10/10/14 00:53	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		10/10/14 00:53	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/10/14 00:53	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		10/10/14 00:53	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/10/14 00:53	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		10/10/14 00:53	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		10/10/14 00:53	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		10/10/14 00:53	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 00:53	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/10/14 00:53	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/10/14 00:53	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/10/14 00:53	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		10/10/14 00:53	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		10/10/14 00:53	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		10/10/14 00:53	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 00:53	1
Tetrachloroethene	<5.9		5.9	0.91	ug/Kg	☼		10/10/14 00:53	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		10/10/14 00:53	1
trans-1,2-Dichloroethene	<5.9		5.9	0.82	ug/Kg	☼		10/10/14 00:53	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/10/14 00:53	1
1,1,1-Trichloroethane	<5.9		5.9	0.89	ug/Kg	☼		10/10/14 00:53	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		10/10/14 00:53	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		10/10/14 00:53	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 00:53	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/10/14 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 00:53	1
Dibromofluoromethane	102		75 - 120		10/10/14 00:53	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		10/10/14 00:53	1
Toluene-d8 (Surr)	102		75 - 122		10/10/14 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(5-10)-092914**

**Lab Sample ID: 500-85076-9**

**Date Collected: 09/29/14 13:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
4-Chlorophenyl phenyl ether	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Benzo[k]fluoranthene	<39 *		39	12	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Carbazole	<200 *		200	100	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Chrysene	<39		39	11	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Dibenz(a,h)anthracene	<39 *		39	7.6	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Dibenzofuran	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(5-10)-092914**

**Lab Sample ID: 500-85076-9**

**Date Collected: 09/29/14 13:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.4**

**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	<39		39	10	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Isophorone	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Naphthalene	<39		39	6.0	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
<b>Phenanthrene</b>	<b>11</b>	<b>J</b>	39	5.5	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Phenol	<200		200	87	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
<b>Pyrene</b>	<b>11</b>	<b>J</b>	39	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				10/09/14 07:00	10/16/14 02:17	1
2-Fluorobiphenyl	45		25 - 119				10/09/14 07:00	10/16/14 02:17	1
2-Fluorophenol	43		25 - 110				10/09/14 07:00	10/16/14 02:17	1
Nitrobenzene-d5	42		25 - 115				10/09/14 07:00	10/16/14 02:17	1
Phenol-d5	39		31 - 110				10/09/14 07:00	10/16/14 02:17	1
Terphenyl-d14	71		36 - 134				10/09/14 07:00	10/16/14 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 20:01	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:01	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:01	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:01	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:01	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:01	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:01	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:01	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:01	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:01	1
<b>Zinc</b>	<b>0.034</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.023</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Chromium</b>	<b>0.095</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Copper</b>	<b>0.092</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Iron</b>	<b>84</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Lead</b>	<b>0.040</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Manganese</b>	<b>0.69</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:25	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:25	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 17:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-4(5-10)-092914**

**Lab Sample ID: 500-85076-9**

Date Collected: 09/29/14 13:05

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 17:25	1
Zinc	0.20		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 17:25	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	☼	10/09/14 10:30	10/10/14 21:51	1
Arsenic	4.5		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Barium	81		0.57	0.061	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Beryllium	0.51		0.23	0.046	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Cadmium	0.34		0.11	0.015	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Calcium	52000		11	3.1	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Chromium	16	B	0.57	0.066	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Cobalt	8.0		0.29	0.057	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Copper	19		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Iron	16000		11	4.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Lead	8.7		0.29	0.085	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Magnesium	24000		5.7	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Manganese	330		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Nickel	21		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Potassium	2600	B	29	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Silver	0.033	J B	0.29	0.021	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Sodium	430		57	7.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Thallium	0.84		0.57	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Vanadium	18		0.29	0.042	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1
Zinc	41	B	1.1	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:21	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	19		19	7.5	ug/Kg	☼	10/08/14 11:00	10/09/14 08:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			10/09/14 13:24	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(0-5)-092914**

**Lab Sample ID: 500-85076-10**

**Date Collected: 09/29/14 13:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		10/10/14 01:17	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		10/10/14 01:17	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 01:17	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/10/14 01:17	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		10/10/14 01:17	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 01:17	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		10/10/14 01:17	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		10/10/14 01:17	1
Chloroethane	<5.8 *		5.8	1.6	ug/Kg	☼		10/10/14 01:17	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		10/10/14 01:17	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 01:17	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		10/10/14 01:17	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		10/10/14 01:17	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 01:17	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		10/10/14 01:17	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/10/14 01:17	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		10/10/14 01:17	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		10/10/14 01:17	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		10/10/14 01:17	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 01:17	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/10/14 01:17	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/10/14 01:17	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/10/14 01:17	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/10/14 01:17	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		10/10/14 01:17	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		10/10/14 01:17	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 01:17	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		10/10/14 01:17	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		10/10/14 01:17	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		10/10/14 01:17	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 01:17	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 01:17	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		10/10/14 01:17	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		10/10/14 01:17	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 01:17	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/10/14 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 01:17	1
Dibromofluoromethane	101		75 - 120		10/10/14 01:17	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/10/14 01:17	1
Toluene-d8 (Surr)	100		75 - 122		10/10/14 01:17	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	40	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(0-5)-092914**

**Lab Sample ID: 500-85076-10**

**Date Collected: 09/29/14 13:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2-Methylphenol	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
4-Chlorophenyl phenyl ether	<190 *		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Benzo[a]anthracene</b>	<b>13 J</b>		37	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Benzo[a]pyrene</b>	<b>16 J</b>		37	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Benzo[b]fluoranthene</b>	<b>30 J</b>		37	7.9	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Benzo[k]fluoranthene</b>	<b>13 J *</b>		37	11	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Carbazole	<190 *		190	95	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Chrysene</b>	<b>16 J</b>		37	10	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Dibenz(a,h)anthracene	<37 *		37	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Dibenzofuran	<190 *		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Fluoranthene</b>	<b>26 J</b>		37	6.8	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Fluorene	<37		37	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Hexachloroethane	<190		190	56	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(0-5)-092914**

**Lab Sample ID: 500-85076-10**

**Date Collected: 09/29/14 13:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.2**

**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	<37		37	9.5	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Isophorone	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Naphthalene	<37		37	5.7	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Phenanthrene</b>	<b>12</b>	<b>J</b>	37	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Phenol	<190		190	82	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
<b>Pyrene</b>	<b>25</b>	<b>J</b>	37	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137				10/09/14 07:00	10/16/14 02:37	1
2-Fluorobiphenyl	54		25 - 119				10/09/14 07:00	10/16/14 02:37	1
2-Fluorophenol	51		25 - 110				10/09/14 07:00	10/16/14 02:37	1
Nitrobenzene-d5	52		25 - 115				10/09/14 07:00	10/16/14 02:37	1
Phenol-d5	47		31 - 110				10/09/14 07:00	10/16/14 02:37	1
Terphenyl-d14	88		36 - 134				10/09/14 07:00	10/16/14 02:37	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		10/13/14 08:45	10/14/14 20:07	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:07	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:07	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:07	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:07	1
<b>Copper</b>	<b>0.034</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:07	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:07	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:07	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:07	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:07	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:07	1
<b>Zinc</b>	<b>0.044</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.085</b>		0.050	0.010	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Beryllium</b>	<b>0.0070</b>		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 17:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Cobalt</b>	<b>0.063</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Copper</b>	<b>0.27</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Lead</b>	<b>0.17</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:32	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:32	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 17:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(0-5)-092914**

**Lab Sample ID: 500-85076-10**

Date Collected: 09/29/14 13:30

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 17:32	1
<b>Zinc</b>	<b>0.55</b>		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 17:32	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	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Arsenic</b>	<b>8.5</b>		0.53	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Barium</b>	<b>33</b>		0.53	0.057	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Beryllium</b>	<b>0.50</b>		0.21	0.043	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Cadmium</b>	<b>0.40</b>		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Calcium</b>	<b>36000</b>		11	2.9	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.53	0.062	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Cobalt</b>	<b>10</b>		0.27	0.053	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Copper</b>	<b>25</b>		0.53	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Lead</b>	<b>15</b>		0.27	0.079	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Magnesium</b>	<b>19000</b>		5.3	1.1	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Manganese</b>	<b>350</b>		0.53	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Nickel</b>	<b>24</b>		0.53	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Potassium</b>	<b>2200</b>	<b>B</b>	27	1.6	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Sodium</b>	<b>1200</b>		53	7.1	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Thallium</b>	<b>1.1</b>		0.53	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Vanadium</b>	<b>18</b>		0.27	0.039	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1
<b>Zinc</b>	<b>55</b>	<b>B</b>	1.1	0.22	mg/Kg	☼	10/09/14 10:30	10/10/14 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 13:07	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>24</b>		19	7.3	ug/Kg	☼	10/08/14 11:00	10/09/14 08:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.61</b>		0.200	0.200	SU			10/09/14 13:31	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(5-10)-092914**

**Lab Sample ID: 500-85076-11**

**Date Collected: 09/29/14 13:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.4		6.0	2.6	ug/Kg	☼		10/10/14 01:41	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/10/14 01:41	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 01:41	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/10/14 01:41	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/10/14 01:41	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 01:41	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 01:41	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/10/14 01:41	1
Chloroethane	<6.0 *		6.0	1.6	ug/Kg	☼		10/10/14 01:41	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/10/14 01:41	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 01:41	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/10/14 01:41	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 01:41	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 01:41	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/10/14 01:41	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/10/14 01:41	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/10/14 01:41	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/10/14 01:41	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 01:41	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 01:41	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/10/14 01:41	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 01:41	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/10/14 01:41	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 01:41	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/10/14 01:41	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 01:41	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 01:41	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/10/14 01:41	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/10/14 01:41	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/10/14 01:41	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 01:41	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 01:41	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/10/14 01:41	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/10/14 01:41	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 01:41	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/10/14 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		10/10/14 01:41	1
Dibromofluoromethane	99		75 - 120		10/10/14 01:41	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/10/14 01:41	1
Toluene-d8 (Surr)	101		75 - 122		10/10/14 01:41	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	40	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(5-10)-092914**

**Lab Sample ID: 500-85076-11**

**Date Collected: 09/29/14 13:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
<b>2-Methylnaphthalene</b>	<b>13</b>	<b>J</b>	37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
4-Chlorophenyl phenyl ether	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
<b>Benzo[b]fluoranthene</b>	<b>21</b>	<b>J</b>	37	8.1	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
<b>Benzo[g,h,i]perylene</b>	<b>13</b>	<b>J</b>	37	12	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Carbazole	<190 *		190	97	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
<b>Chrysene</b>	<b>17</b>	<b>J</b>	37	10	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Dibenzofuran	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
<b>Fluoranthene</b>	<b>19</b>	<b>J</b>	37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(5-10)-092914**

**Lab Sample ID: 500-85076-11**

Date Collected: 09/29/14 13:35

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 83.3

**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	<37		37	9.7	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
<b>Phenanthrene</b>	<b>19</b>	<b>J</b>	37	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Phenol	<190		190	83	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
<b>Pyrene</b>	<b>22</b>	<b>J</b>	37	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		35 - 137				10/09/14 07:00	10/16/14 02:58	1
2-Fluorobiphenyl	60		25 - 119				10/09/14 07:00	10/16/14 02:58	1
2-Fluorophenol	57		25 - 110				10/09/14 07:00	10/16/14 02:58	1
Nitrobenzene-d5	56		25 - 115				10/09/14 07:00	10/16/14 02:58	1
Phenol-d5	54		31 - 110				10/09/14 07:00	10/16/14 02:58	1
Terphenyl-d14	94		36 - 134				10/09/14 07:00	10/16/14 02:58	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		10/13/14 08:45	10/14/14 20:12	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:12	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:12	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:12	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:12	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:12	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:12	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:12	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:12	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:12	1
<b>Zinc</b>	<b>0.034</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:12	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		10/10/14 09:45	10/11/14 17:53	1
<b>Barium</b>	<b>0.061</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 17:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 17:53	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:53	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:53	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:53	1
<b>Iron</b>	<b>5.2</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 17:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 17:53	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:53	1
Nickel	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:53	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-3(5-10)-092914**

**Lab Sample ID: 500-85076-11**

Date Collected: 09/29/14 13:35

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 17:53	1
<b>Zinc</b>	<b>0.051</b>	<b>J</b>	0.10	0.020	mg/L		10/10/14 09:45	10/11/14 17:53	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	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Arsenic</b>	<b>3.9</b>		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Barium</b>	<b>37</b>		0.57	0.061	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Beryllium</b>	<b>0.50</b>		0.23	0.045	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Cadmium</b>	<b>0.32</b>		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Calcium</b>	<b>51000</b>		11	3.1	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.57	0.066	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Cobalt</b>	<b>5.5</b>		0.28	0.057	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Copper</b>	<b>18</b>		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Iron</b>	<b>16000</b>		11	4.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Lead</b>	<b>8.5</b>		0.28	0.084	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Magnesium</b>	<b>23000</b>		5.7	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Manganese</b>	<b>240</b>		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Nickel</b>	<b>19</b>		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Potassium</b>	<b>2500</b>	<b>B</b>	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Sodium</b>	<b>460</b>		57	7.6	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Thallium</b>	<b>0.75</b>		0.57	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Vanadium</b>	<b>18</b>		0.28	0.042	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1
<b>Zinc</b>	<b>40</b>	<b>B</b>	1.1	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:25	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>22</b>		18	7.1	ug/Kg	☼	10/08/14 11:00	10/09/14 08:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.23</b>		0.200	0.200	SU			10/09/14 13:38	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(0-5)-092914**

**Lab Sample ID: 500-85076-12**

**Date Collected: 09/29/14 13:55**

**Matrix: Solid**

**Date Received: 09/30/14 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	☼		10/10/14 02:04	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		10/10/14 02:04	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 02:04	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/10/14 02:04	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/10/14 02:04	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 02:04	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 02:04	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/10/14 02:04	1
Chloroethane	<6.0 *		6.0	1.6	ug/Kg	☼		10/10/14 02:04	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/10/14 02:04	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 02:04	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/10/14 02:04	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 02:04	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 02:04	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/10/14 02:04	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/10/14 02:04	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/10/14 02:04	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	☼		10/10/14 02:04	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 02:04	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 02:04	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/10/14 02:04	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 02:04	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/10/14 02:04	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 02:04	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 02:04	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 02:04	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 02:04	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/10/14 02:04	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/10/14 02:04	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/10/14 02:04	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 02:04	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 02:04	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/10/14 02:04	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/10/14 02:04	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 02:04	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/10/14 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 02:04	1
Dibromofluoromethane	103		75 - 120		10/10/14 02:04	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		10/10/14 02:04	1
Toluene-d8 (Surr)	101		75 - 122		10/10/14 02:04	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	☼	10/09/14 07:00	10/16/14 03:19	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(0-5)-092914**

**Lab Sample ID: 500-85076-12**

**Date Collected: 09/29/14 13:55**

**Matrix: Solid**

**Date Received: 09/30/14 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	☼	10/09/14 07:00	10/16/14 03:19	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
4-Chlorophenyl phenyl ether	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Anthracene	<38		38	6.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Carbazole	<190 *		190	99	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Chrysene	<38		38	10	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Dibenzofuran	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(0-5)-092914**

**Lab Sample ID: 500-85076-12**

**Date Collected: 09/29/14 13:55**

**Matrix: Solid**

**Date Received: 09/30/14 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	☼	10/09/14 07:00	10/16/14 03:19	1
Isophorone	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Phenol	<190		190	86	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Pyrene	<38		38	7.6	ug/Kg	☼	10/09/14 07:00	10/16/14 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		35 - 137				10/09/14 07:00	10/16/14 03:19	1
2-Fluorobiphenyl	51		25 - 119				10/09/14 07:00	10/16/14 03:19	1
2-Fluorophenol	119	X	25 - 110				10/09/14 07:00	10/16/14 03:19	1
Nitrobenzene-d5	49		25 - 115				10/09/14 07:00	10/16/14 03:19	1
Phenol-d5	60		31 - 110				10/09/14 07:00	10/16/14 03:19	1
Terphenyl-d14	81		36 - 134				10/09/14 07:00	10/16/14 03:19	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		10/13/14 08:45	10/14/14 20:17	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:17	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:17	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:17	1
<b>Copper</b>	<b>0.034</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:17	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:17	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:17	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:17	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:17	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:17	1
<b>Zinc</b>	<b>0.045</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.021</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 17:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Chromium</b>	<b>0.057</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Copper</b>	<b>0.057</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Iron</b>	<b>56</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Lead</b>	<b>0.023</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:59	1
<b>Nickel</b>	<b>0.060</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 17:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(0-5)-092914**

**Lab Sample ID: 500-85076-12**

Date Collected: 09/29/14 13:55

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 17:59	1
Zinc	0.14		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 17:59	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	☼	10/09/14 10:30	10/10/14 22:10	1
Arsenic	8.1		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Barium	68		0.56	0.060	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Beryllium	0.74		0.22	0.045	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Calcium	1900		11	3.0	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Chromium	20	B	0.56	0.065	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Cobalt	12		0.28	0.056	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Copper	23		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Iron	24000		11	4.6	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Lead	15		0.28	0.083	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Magnesium	4600		5.6	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Manganese	630		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Nickel	30		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Potassium	1700	B	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Selenium	0.25	J	0.56	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Sodium	94		56	7.5	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Thallium	1.4		0.56	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Vanadium	22		0.28	0.041	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 22:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:27	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	30		18	6.9	ug/Kg	☼	10/08/14 11:00	10/09/14 08:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.51		0.200	0.200	SU			10/09/14 13:46	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(5-10)-092914**

**Lab Sample ID: 500-85076-13**

**Date Collected: 09/29/14 14:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		10/10/14 02:28	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		10/10/14 02:28	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		10/10/14 02:28	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/10/14 02:28	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		10/10/14 02:28	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		10/10/14 02:28	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 02:28	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	☼		10/10/14 02:28	1
Chloroethane	<5.8 *		5.8	1.6	ug/Kg	☼		10/10/14 02:28	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		10/10/14 02:28	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 02:28	1
cis-1,2-Dichloroethene	<5.8		5.8	0.81	ug/Kg	☼		10/10/14 02:28	1
cis-1,3-Dichloropropene	<5.8		5.8	0.75	ug/Kg	☼		10/10/14 02:28	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 02:28	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		10/10/14 02:28	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		10/10/14 02:28	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		10/10/14 02:28	1
1,2-Dichloropropane	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 02:28	1
1,3-Dichloropropene, Total	<5.8		5.8	0.75	ug/Kg	☼		10/10/14 02:28	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 02:28	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/10/14 02:28	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/10/14 02:28	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/10/14 02:28	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/10/14 02:28	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		10/10/14 02:28	1
Styrene	<5.8		5.8	0.75	ug/Kg	☼		10/10/14 02:28	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 02:28	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		10/10/14 02:28	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		10/10/14 02:28	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		10/10/14 02:28	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 02:28	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/10/14 02:28	1
1,1,2-Trichloroethane	<5.8		5.8	0.78	ug/Kg	☼		10/10/14 02:28	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		10/10/14 02:28	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 02:28	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		10/10/14 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		10/10/14 02:28	1
Dibromofluoromethane	103		75 - 120		10/10/14 02:28	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/10/14 02:28	1
Toluene-d8 (Surr)	99		75 - 122		10/10/14 02:28	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	☼	10/09/14 07:00	10/16/14 03:40	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(5-10)-092914**

**Lab Sample ID: 500-85076-13**

**Date Collected: 09/29/14 14:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.9**

**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	87	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
4-Chlorophenyl phenyl ether	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Anthracene	<38		38	6.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Carbazole	<190 *		190	99	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Chrysene	<38		38	10	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Dibenzofuran	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Hexachloroethane	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(5-10)-092914**

**Lab Sample ID: 500-85076-13**

Date Collected: 09/29/14 14:00

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 86.9

**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	9.9	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Isophorone	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Phenol	<190		190	85	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Pyrene	<38		38	7.6	ug/Kg	☼	10/09/14 07:00	10/16/14 03:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	44		35 - 137				10/09/14 07:00	10/16/14 03:40	1
2-Fluorobiphenyl	34		25 - 119				10/09/14 07:00	10/16/14 03:40	1
2-Fluorophenol	36		25 - 110				10/09/14 07:00	10/16/14 03:40	1
Nitrobenzene-d5	37		25 - 115				10/09/14 07:00	10/16/14 03:40	1
Phenol-d5	34		31 - 110				10/09/14 07:00	10/16/14 03:40	1
Terphenyl-d14	58		36 - 134				10/09/14 07:00	10/16/14 03:40	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		10/13/14 08:45	10/14/14 20:22	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:22	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:22	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:22	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:22	1
<b>Copper</b>	<b>0.067</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:22	1
<b>Iron</b>	<b>0.33</b>		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:22	1
<b>Lead</b>	<b>0.0084</b>		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:22	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:22	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:22	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:22	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:22	1
<b>Zinc</b>	<b>0.072</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.051</b>		0.050	0.010	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Chromium</b>	<b>0.078</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Iron</b>	<b>100</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Lead</b>	<b>0.049</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:05	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-2(5-10)-092914**

**Lab Sample ID: 500-85076-13**

Date Collected: 09/29/14 14:00

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:05	1
<b>Zinc</b>	<b>0.32</b>		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Arsenic</b>	<b>9.2</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Barium</b>	<b>27</b>		0.55	0.059	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Beryllium</b>	<b>0.41</b>		0.22	0.044	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Cadmium</b>	<b>0.42</b>		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Calcium</b>	<b>53000</b>		11	3.0	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Chromium</b>	<b>12</b>	<b>B</b>	0.55	0.064	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Cobalt</b>	<b>7.9</b>		0.28	0.055	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Copper</b>	<b>25</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Iron</b>	<b>18000</b>		11	4.5	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Lead</b>	<b>12</b>		0.28	0.082	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Magnesium</b>	<b>30000</b>		5.5	1.1	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Manganese</b>	<b>350</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Nickel</b>	<b>22</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Potassium</b>	<b>2000</b>	<b>B</b>	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Silver</b>	<b>0.033</b>	<b>J B</b>	0.28	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Sodium</b>	<b>260</b>		55	7.4	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Thallium</b>	<b>1.2</b>		0.55	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Vanadium</b>	<b>15</b>		0.28	0.041	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1
<b>Zinc</b>	<b>56</b>	<b>B</b>	1.1	0.22	mg/Kg	☼	10/09/14 10:30	10/10/14 22:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>22</b>		19	7.3	ug/Kg	☼	10/08/14 11:00	10/09/14 08:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.41</b>		0.200	0.200	SU			10/09/14 13:53	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(0-5)-092914**

**Lab Sample ID: 500-85076-14**

**Date Collected: 09/29/14 14:10**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		10/10/14 02:52	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/10/14 02:52	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/10/14 02:52	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/10/14 02:52	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/10/14 02:52	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/10/14 02:52	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/10/14 02:52	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/10/14 02:52	1
Chloroethane	<5.9	*	5.9	1.6	ug/Kg	☼		10/10/14 02:52	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/10/14 02:52	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 02:52	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/10/14 02:52	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/10/14 02:52	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/10/14 02:52	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/10/14 02:52	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/10/14 02:52	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/10/14 02:52	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		10/10/14 02:52	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/10/14 02:52	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 02:52	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/10/14 02:52	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/10/14 02:52	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/10/14 02:52	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/10/14 02:52	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/10/14 02:52	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/10/14 02:52	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 02:52	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/10/14 02:52	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		10/10/14 02:52	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/10/14 02:52	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/10/14 02:52	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/10/14 02:52	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/10/14 02:52	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/10/14 02:52	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/10/14 02:52	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/10/14 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		10/10/14 02:52	1
Dibromofluoromethane	106		75 - 120		10/10/14 02:52	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		10/10/14 02:52	1
Toluene-d8 (Surr)	101		75 - 122		10/10/14 02:52	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	40	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(0-5)-092914**

**Lab Sample ID: 500-85076-14**

**Date Collected: 09/29/14 14:10**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
4-Chlorophenyl phenyl ether	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>150 J</b>		190	68	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Carbazole	<190 *		190	97	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Dibenzofuran	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(0-5)-092914**

**Lab Sample ID: 500-85076-14**

**Date Collected: 09/29/14 14:10**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.0**

**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	<37		37	9.7	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Phenol	<190		190	83	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				10/09/14 07:00	10/16/14 04:01	1
2-Fluorobiphenyl	47		25 - 119				10/09/14 07:00	10/16/14 04:01	1
2-Fluorophenol	47		25 - 110				10/09/14 07:00	10/16/14 04:01	1
Nitrobenzene-d5	49		25 - 115				10/09/14 07:00	10/16/14 04:01	1
Phenol-d5	43		31 - 110				10/09/14 07:00	10/16/14 04:01	1
Terphenyl-d14	86		36 - 134				10/09/14 07:00	10/16/14 04:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 20:27	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:27	1
<b>Copper</b>	<b>0.041</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:27	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:27	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:27	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:27	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:27	1
<b>Zinc</b>	<b>0.050</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.048</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Chromium</b>	<b>0.084</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Cobalt</b>	<b>0.029</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Copper</b>	<b>0.10</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Iron</b>	<b>100</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Lead</b>	<b>0.053</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Manganese</b>	<b>0.42</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:11	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:11	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(0-5)-092914**

**Lab Sample ID: 500-85076-14**

Date Collected: 09/29/14 14:10

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:11	1
<b>Zinc</b>	<b>0.25</b>		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:11	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Arsenic</b>	<b>8.4</b>		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Barium</b>	<b>40</b>		0.54	0.058	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Beryllium</b>	<b>0.52</b>		0.22	0.043	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Calcium</b>	<b>22000</b>		11	2.9	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.54	0.063	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Cobalt</b>	<b>9.7</b>		0.27	0.054	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Copper</b>	<b>23</b>		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Iron</b>	<b>20000</b>		11	4.4	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Lead</b>	<b>17</b>		0.27	0.081	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Magnesium</b>	<b>14000</b>		5.4	1.1	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Manganese</b>	<b>420</b>		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Nickel</b>	<b>24</b>		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Potassium</b>	<b>2100</b>	<b>B</b>	27	1.6	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Sodium</b>	<b>88</b>		54	7.3	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Thallium</b>	<b>1.3</b>		0.54	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Vanadium</b>	<b>17</b>		0.27	0.040	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1
<b>Zinc</b>	<b>55</b>	<b>B</b>	1.1	0.22	mg/Kg	☼	10/09/14 10:30	10/10/14 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.20</b>		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:35	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>26</b>		18	7.1	ug/Kg	☼	10/08/14 11:00	10/09/14 08:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.24</b>		0.200	0.200	SU			10/09/14 14:00	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914**

**Lab Sample ID: 500-85076-15**

**Date Collected: 09/29/14 14:15**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	21		6.1	2.6	ug/Kg	☼		10/10/14 03:16	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		10/10/14 03:16	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		10/10/14 03:16	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/10/14 03:16	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		10/10/14 03:16	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		10/10/14 03:16	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/10/14 03:16	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/10/14 03:16	1
Chloroethane	<6.1 *		6.1	1.7	ug/Kg	☼		10/10/14 03:16	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		10/10/14 03:16	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/10/14 03:16	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		10/10/14 03:16	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		10/10/14 03:16	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/10/14 03:16	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		10/10/14 03:16	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		10/10/14 03:16	1
1,1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		10/10/14 03:16	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		10/10/14 03:16	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		10/10/14 03:16	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/10/14 03:16	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		10/10/14 03:16	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		10/10/14 03:16	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/10/14 03:16	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/10/14 03:16	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/10/14 03:16	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		10/10/14 03:16	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/10/14 03:16	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		10/10/14 03:16	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		10/10/14 03:16	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		10/10/14 03:16	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/10/14 03:16	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/10/14 03:16	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		10/10/14 03:16	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/10/14 03:16	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/10/14 03:16	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/10/14 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 03:16	1
Dibromofluoromethane	104		75 - 120		10/10/14 03:16	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		10/10/14 03:16	1
Toluene-d8 (Surr)	102		75 - 122		10/10/14 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914**

**Lab Sample ID: 500-85076-15**

Date Collected: 09/29/14 14:15

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
<b>2-Methylnaphthalene</b>	<b>64</b>		39	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
4-Chlorophenyl phenyl ether	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Benzo[a]pyrene	<39		39	7.7	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Benzo[b]fluoranthene	<39		39	8.6	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Benzo[k]fluoranthene	<39 *		39	12	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Carbazole	<200 *		200	100	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Chrysene	<39		39	11	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Dibenz(a,h)anthracene	<39 *		39	7.7	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Dibenzofuran	<200 *		200	46	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Fluoranthene	<39		39	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Fluorene	<39		39	5.6	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914**

**Lab Sample ID: 500-85076-15**

Date Collected: 09/29/14 14:15

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 82.3

**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	<39		39	10	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Naphthalene	<39		39	6.1	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
<b>Phenanthrene</b>	<b>49</b>		39	5.5	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Phenol	<200		200	88	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Pyrene	<39		39	7.9	ug/Kg	☼	10/09/14 07:00	10/16/14 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137				10/09/14 07:00	10/16/14 04:21	1
2-Fluorobiphenyl	64		25 - 119				10/09/14 07:00	10/16/14 04:21	1
2-Fluorophenol	60		25 - 110				10/09/14 07:00	10/16/14 04:21	1
Nitrobenzene-d5	61		25 - 115				10/09/14 07:00	10/16/14 04:21	1
Phenol-d5	59		31 - 110				10/09/14 07:00	10/16/14 04:21	1
Terphenyl-d14	101		36 - 134				10/09/14 07:00	10/16/14 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 20:39	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:39	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:39	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:39	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:39	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:39	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:39	1
<b>Manganese</b>	<b>7.1</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:39	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:39	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:39	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:39	1
<b>Zinc</b>	<b>0.059</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:39	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		10/10/14 09:45	10/11/14 18:18	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:18	1
<b>Chromium</b>	<b>0.031</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:18	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:18	1
<b>Copper</b>	<b>0.042</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:18	1
<b>Iron</b>	<b>27</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:18	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:18	1
<b>Manganese</b>	<b>0.81</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:18	1
<b>Nickel</b>	<b>0.034</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:18	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914**

**Lab Sample ID: 500-85076-15**

Date Collected: 09/29/14 14:15

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:18	1
Zinc	0.092	J	0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:18	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Arsenic	9.2		0.58	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Barium	39		0.58	0.062	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Beryllium	0.53		0.23	0.046	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Cadmium	0.26		0.12	0.015	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Calcium	25000		12	3.1	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Chromium	16	B	0.58	0.067	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Cobalt	10		0.29	0.058	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Copper	26		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Iron	23000		12	4.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Lead	16		0.29	0.086	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Magnesium	16000		5.8	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Manganese	400		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Nickel	26		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Potassium	2200	B	29	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Sodium	97		58	7.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Thallium	0.97		0.58	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Vanadium	17		0.29	0.043	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1
Zinc	56	B	1.2	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:37	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	28		19	7.5	ug/Kg	☼	10/08/14 11:00	10/09/14 08:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			10/09/14 14:07	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914D**

**Lab Sample ID: 500-85076-16**

**Date Collected: 09/29/14 14:15**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	40		6.0	2.6	ug/Kg	☼		10/10/14 03:40	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		10/10/14 03:40	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 03:40	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/10/14 03:40	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/10/14 03:40	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 03:40	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 03:40	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/10/14 03:40	1
Chloroethane	<6.0 *		6.0	1.6	ug/Kg	☼		10/10/14 03:40	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/10/14 03:40	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 03:40	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/10/14 03:40	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 03:40	1
Dibromochloromethane	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 03:40	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/10/14 03:40	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/10/14 03:40	1
1,1-Dichloroethene	<6.0		6.0	0.98	ug/Kg	☼		10/10/14 03:40	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	☼		10/10/14 03:40	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 03:40	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 03:40	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/10/14 03:40	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 03:40	1
Methyl Ethyl Ketone	5.8 J		6.0	2.2	ug/Kg	☼		10/10/14 03:40	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/10/14 03:40	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 03:40	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/10/14 03:40	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/10/14 03:40	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/10/14 03:40	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/10/14 03:40	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/10/14 03:40	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/10/14 03:40	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/10/14 03:40	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/10/14 03:40	1
Trichloroethene	<6.0		6.0	1.0	ug/Kg	☼		10/10/14 03:40	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/10/14 03:40	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/10/14 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		10/10/14 03:40	1
Dibromofluoromethane	103		75 - 120		10/10/14 03:40	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		10/10/14 03:40	1
Toluene-d8 (Surr)	98		75 - 122		10/10/14 03:40	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	☼	10/09/14 07:00	10/16/14 04:42	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914D**

**Lab Sample ID: 500-85076-16**

Date Collected: 09/29/14 14:15

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 82.8

**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	☼	10/09/14 07:00	10/16/14 04:42	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
<b>2-Methylnaphthalene</b>	<b>41</b>		38	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
4-Chlorophenyl phenyl ether	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Anthracene	<38		38	6.5	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Carbazole	<190 *		190	100	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Chrysene	<38		38	11	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Dibenz(a,h)anthracene	<38 *		38	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Dibenzofuran	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914D**

**Lab Sample ID: 500-85076-16**

Date Collected: 09/29/14 14:15

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 82.8

**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	☼	10/09/14 07:00	10/16/14 04:42	1
Isophorone	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Phenol	<190		190	86	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Pyrene	<38		38	7.7	ug/Kg	☼	10/09/14 07:00	10/16/14 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				10/09/14 07:00	10/16/14 04:42	1
2-Fluorobiphenyl	64		25 - 119				10/09/14 07:00	10/16/14 04:42	1
2-Fluorophenol	60		25 - 110				10/09/14 07:00	10/16/14 04:42	1
Nitrobenzene-d5	66		25 - 115				10/09/14 07:00	10/16/14 04:42	1
Phenol-d5	57		31 - 110				10/09/14 07:00	10/16/14 04:42	1
Terphenyl-d14	95		36 - 134				10/09/14 07:00	10/16/14 04:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:44	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Copper</b>	<b>0.069</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Manganese</b>	<b>5.8</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:44	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:44	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:44	1
<b>Zinc</b>	<b>0.082</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:44	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		10/10/14 09:45	10/11/14 18:24	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:24	1
<b>Chromium</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:24	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:24	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:24	1
<b>Iron</b>	<b>13</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:24	1
<b>Lead</b>	<b>0.0079</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:24	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:24	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:24	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RT1-1(5-10)-092914D**

**Lab Sample ID: 500-85076-16**

Date Collected: 09/29/14 14:15

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:24	1
<b>Zinc</b>	<b>0.061</b>	<b>J</b>	0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:24	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	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Arsenic</b>	<b>7.3</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Barium</b>	<b>76</b>		0.55	0.059	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Beryllium</b>	<b>0.66</b>		0.22	0.044	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Calcium</b>	<b>12000</b>		11	3.0	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.55	0.064	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Cobalt</b>	<b>12</b>		0.28	0.055	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Copper</b>	<b>19</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Iron</b>	<b>21000</b>		11	4.6	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Lead</b>	<b>12</b>		0.28	0.082	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Magnesium</b>	<b>10000</b>		5.5	1.1	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Manganese</b>	<b>370</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Nickel</b>	<b>33</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Potassium</b>	<b>2500</b>	<b>B</b>	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Sodium</b>	<b>87</b>		55	7.4	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Thallium</b>	<b>1.0</b>		0.55	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Vanadium</b>	<b>19</b>		0.28	0.041	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1
<b>Zinc</b>	<b>46</b>	<b>B</b>	1.1	0.22	mg/Kg	☼	10/09/14 10:30	10/10/14 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:39	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>22</b>		20	7.9	ug/Kg	☼	10/08/14 11:00	10/09/14 08:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.76</b>		0.200	0.200	SU			10/13/14 14:49	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.
F1	MS and/or MSD Recovery exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
L	A negative instrument reading had an absolute value greater than the reporting limit
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.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

## 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 ENVIRONMENTAL

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



500-85076 COC

Report To (optional) S. Babusukumar Bill To (optional) Same  
 Contact: S. Babusukumar Contact: Same  
 Company: Weston Company: \_\_\_\_\_  
 Address: 300 Plaza Circle #202 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-864-7250 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-85076

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

Page 3 of 5

Temperature °C of Cooler: (2.7) (3.1)

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
<u>Weston Solutions</u>		<u>50010169</u>		<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	Comments		
Project Name <u>IDOT 090 orland park</u>		Lab Project # <u>50010169</u>		<u>VOCs</u>	<u>5 VOCs</u>	<u>Total Metals</u>	<u>Tcup/sep metals</u>	<u>pH</u>			
Project Location/State <u>Orland Park, IL</u>		Lab PM <u>Wright</u>		Sampling		# of Containers		Matrix			
Sampler <u>Sing</u>		Sample ID		Date	Time						
1		<u>VL-5(5-10)-092914</u>		<u>9/29/14</u>	<u>11:35</u>	<u>2</u>	<u>50</u>	<u>X</u>	<u>X</u>	<u>X</u>	
2		<u>VL-6(0-5)-092914</u>			<u>11:50</u>						
3		<u>VL-6(5-10)-092914</u>			<u>11:55</u>						
4		<u>VL-7(0-5)-092914</u>			<u>12:10</u>						
5		<u>VL-7(5-10)-092914</u>			<u>12:15</u>						
6		<u>RT1-5(0-5)-092914</u>			<u>12:40</u>						
7		<u>RT1-5(5-10)-092914</u>			<u>12:45</u>						
8		<u>RT1-4(0-5)-092914</u>			<u>13:00</u>						
9		<u>RT1-4(5-10)-092914</u>			<u>13:05</u>						
10		<u>RT1-3(0-5)-092914</u>		<u>9/29/14</u>	<u>13:30</u>	<u>2</u>	<u>50</u>	<u>X</u>	<u>X</u>	<u>X</u>	

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>David Sena</u>	Company <u>Weston</u>	Date <u>9/29/14</u>	Time <u>16:00</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>16:00</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>16:45</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>06:30</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

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: Si Babusukumar  
Company: Weston  
Address: 300 Plaza Circle #202  
Mundelein, IL 60060  
Phone: 224-864-7520  
Fax:  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85076

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

Page 4 of 5

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Comments				
weston solutions				7	7	7	7	7	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Matrix								
100T 090 Orland Park		50010169										
Project Location/State		Lab PM										
Orland Park, IL		wright										
Sampler												
Seng												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCs	metals	TCU/SPU Metals	pH	Comments
11		RT1-3(5-10)-092914	9/29/14	13:35	2	SO	X	X	X	X	X	
12		RT1-2(0-5)-092914		13:55								
13		RT1-2(5-10)-092914		14:00								
14		RT1-1(0-5)-092914		14:10								
15		RT1-1(5-10)-092914		14:15								
16		RT1-1(5-10)-092914D		14:15								
17		RS-4(0-5)-092914		14:30								
18		RS-4(5-10)-092914		14:35								
19		RS-3(0-5)-092914		14:55								
20		RS-3(5-10)-092914	9/29/14	15:00	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

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

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>David Sen</u>	Company <u>Weston</u>	Date <u>9/29/14</u>	Time <u>16:00</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>1600</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/30/14</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: FAU 297: US 6 (Southwest Hwy) at 179th St Office Phone Number, if available: \_\_\_\_\_

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

17601 US 6 (northeast corner of US 6 and 179th Street)

City: Orland Park 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: 41.56456888 Longitude: -87.90378455  
(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: FAU 297: US 6 (Southwest Hwy) at 179th StLatitude: 41.56456888 Longitude: -87.90378455Uncontaminated 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 VL-2, VL-5, VL-6, VL-7, VL-8, VL-9, and VL-10 WERE SAMPLED ADJACENT TO ISGS SITE No. 2532-2. 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: 500-85075-1 and  
TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-85076-1.

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

I, Kurt T. Fischer 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 TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



Date:



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

**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	VL-2(0-5)-092914	VL-2(5-10)-092914	VL-2(10-15)-092914	VL-2(10-15)-092914D	VL-5(0-5)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	VL-2	VL-2	VL-2	VL-2	VL-5	
Depth	0 - 5	5 - 10	10 - 15	10 - 15	0 - 5	
ISGS Site Number	3523-2	3523-2	3523-2	3523-2	3523-2	
Parameter						
Laboratory pH (s.u.)	8.88	8.31	8.22	8.3	8.75	<6.25, >9.0
<b>VOCs (ug/kg)</b>						
Acetone	ND	ND	13	11	ND	25000
<b>SVOCs (ug/kg)</b>						
Acenaphthylene	ND	ND	ND	ND	ND	---
Anthracene	ND	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	---
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	9000
Chrysene	ND	ND	ND	ND	ND	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	ND	ND	ND	ND	ND	3100000
Fluorene	ND	ND	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	ND	1800
Phenanthrene	ND	ND	ND	ND	ND	---
Pyrene	ND	ND	ND	ND	ND	2300000
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	8	9.8	7.3	5.9	6.1	11.3 / 13
Barium, Total	53 J	75 J	35 J	41 J	39 J	1500
Beryllium, Total	0.46	0.56	0.49	0.51	0.51	22
Cadmium, Total	0.41	0.31	0.4	0.38	0.35	5.2
Calcium, Total	31000 J	35000 J	49000 J	52000 J	45000 J	---
Chromium, Total	13 B	16 B	15 B	16 B	16 B	21
Cobalt, Total	7.8 J	10 J	10 J	9 J	6.8 J	20
Copper, Total	19 J	23 J	19 J	23 J	21 J	2900
Iron, Total	19000 J+	23000 J+	19000 J+	18000 J+	17000 J+	15000 / 15900
Lead, Total	18 J-	18 J-	13 J-	10 J-	9.7 J-	107
Magnesium, Total	19000 J	18000 J	25000 J	25000 J	23000 J	325000
Manganese, Total	450 J	620 J	370 J	350 J	280 J	630 / 636
Mercury, Total	0.033	0.031	0.021	0.018	0.02	0.89
Nickel, Total	18	24	25	24	19	100
Potassium, Total	1500 J+	2100 J+	2800 J+	2700 J+	2400 J+	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	0.07 J	0.043 J	0.036 J	ND	4.4
Sodium, Total	540	620	210	240	700	---
Thallium, Total	1.1	0.94 J	1.3	1.1	0.8	2.6
Vanadium, Total	18	21	15	17	19	550
Zinc, Total	48 B	58 B	49 B	47 B	44 B	5100
<b>TCLP Metals (mg/l)</b>						
Barium, TCLP	0.33 J	0.67	0.52	0.57	0.24 J	2
Cadmium, TCLP	ND	0.0021 J	ND	ND	0.0031 J	0.005
Cobalt, TCLP	ND	0.014 J	0.016 J	ND	ND	1
Copper, TCLP	0.072	0.11	0.04 J	0.18 J	0.059	0.65
Lead, TCLP	ND	ND	ND	0.01	ND	0.0075
Manganese, TCLP	0.4	4.7	1.8	1.7	1.6	0.15
Nickel, TCLP	ND	0.012 J	0.033	0.015 J	0.019 J	0.1
Zinc, TCLP	0.055 J	0.065 J	0.036 J	0.083 J	0.058 J	5

**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

<b>Field Sample ID</b>	VL-2(0-5)-092914	VL-2(5-10)-092914	VL-2(10-15)-092914	VL-2(10-15)-092914D	VL-5(0-5)-092914	<b>Soil Reference Concentrations<sup>A</sup></b>
<b>Sample Date</b>	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
<b>Location ID</b>	VL-2	VL-2	VL-2	VL-2	VL-5	
<b>Depth</b>	0 - 5	5 - 10	10 - 15	10 - 15	0 - 5	
<b>ISGS Site Number</b>	3523-2	3523-2	3523-2	3523-2	3523-2	
<b>Parameter</b>						
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.039 J	0.014 J	ND	ND	0.019 J	0.05
Barium, SPLP	0.35 J	0.21 J	0.12 J	0.19 J	0.21 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Chromium, SPLP	0.1	0.041	0.021 J	0.043 J	0.055	0.1
Cobalt, SPLP	0.027	0.016 J	ND	0.015 J	0.012 J	1
Copper, SPLP	0.11 J	0.047 J	0.026 J	0.039 J	0.073 J	0.65
Iron, SPLP	110 J	35 J	8.7 J	28 J	50 J	5
Lead, SPLP	0.052 J	0.026 J	ND	0.016 J	0.024 J	0.0075
Manganese, SPLP	0.59 J	0.48 J	0.25 J	0.37 J	0.24 J	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.089 J	0.042 J	0.016 J	0.041 J	0.052 J	0.1
Zinc, SPLP	0.29 J	0.14 J	0.064 J	0.1 J	0.17 J	5

**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	VL-5(5-10)-092914	VL-6(0-5)-092914	VL-6(5-10)-092914	VL-7(0-5)-092914	VL-7(5-10)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	VL-5	VL-6	VL-6	VL-7	VL-7	
Depth	5 - 10	0 - 5	5 - 10	0 - 5	5 - 10	
ISGS Site Number	3523-2	3523-2	3523-2	3523-2	3523-2	
Parameter						
Laboratory pH (s.u.)	8.83	8.27	8.67	8.55	8.65	<6.25, >9.0
<b>VOCs (ug/kg)</b>						
Acetone	ND	ND	ND	ND	ND	25000
<b>SVOCs (ug/kg)</b>						
Acenaphthylene	ND	ND	ND	ND	ND	---
Anthracene	ND	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	---
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	9000
Chrysene	ND	ND	ND	ND	ND	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	ND	ND	ND	ND	ND	3100000
Fluorene	ND	ND	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	ND	1800
Phenanthrene	ND	ND	ND	ND	ND	---
Pyrene	ND	ND	ND	ND	ND	2300000
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	12 J	9.7 J	8.6 J	8.9 J	5.3 J	11.3 / 13
Barium, Total	25 J	84 J	26 J	29 J	47 J	1500
Beryllium, Total	0.37	0.64	0.4	0.44	0.42	22
Cadmium, Total	0.5 J-	0.16 J-	0.39 J-	0.54 J-	0.31 J-	5.2
Calcium, Total	57000 J	3500 J	46000 J	76000 J	41000 J	---
Chromium, Total	11 J	16 J	13 J	12 J	12 J	21
Cobalt, Total	12 J	10 J	7.7 J	8.4 J	5.1 J	20
Copper, Total	26 J-	21 J-	22 J-	23 J-	15 J-	2900
Iron, Total	18000 J-	22000 J-	17000 J-	19000 J-	14000 J-	15000 / 15900
Lead, Total	12 J-	18 J-	12 J-	11 J-	8 J-	107
Magnesium, Total	28000 J	4400 J	28000 J	35000 J	23000 J	325000
Manganese, Total	490 J	600 J	270 J	380 J	270 J	630 / 636
Mercury, Total	0.019	0.03	0.021	0.021	0.024	0.89
Nickel, Total	25 J	24 J	19 J	21 J	14 J	100
Potassium, Total	1700 J	1300 J	1900 J	2200 J	1500 J	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	420 J+	610 J+	440 J+	500 J+	450 J+	---
Thallium, Total	1.1	1.6	1.1	1.2	0.75	2.6
Vanadium, Total	14 J	24 J	15 J	17 J	16 J	550
Zinc, Total	73 J-	51 J-	52 J-	51 J-	43 J-	5100
<b>TCLP Metals (mg/l)</b>						
Barium, TCLP	0.2 J	0.27 J	0.19 J	0.2 J	0.37 J	2
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Cobalt, TCLP	ND	ND	ND	ND	ND	1
Copper, TCLP	0.06	0.069	0.012 J	0.035	0.022 J	0.65
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.27	0.033	0.41	0.31	0.088	0.15
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Zinc, TCLP	ND	ND	ND	ND	ND	5

**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

<b>Field Sample ID</b>	VL-5(5-10)-092914	VL-6(0-5)-092914	VL-6(5-10)-092914	VL-7(0-5)-092914	VL-7(5-10)-092914	<b>Soil Reference Concentrations<sup>A</sup></b>
<b>Sample Date</b>	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
<b>Location ID</b>	VL-5	VL-6	VL-6	VL-7	VL-7	
<b>Depth</b>	5 - 10	0 - 5	5 - 10	0 - 5	5 - 10	
<b>ISGS Site Number</b>	3523-2	3523-2	3523-2	3523-2	3523-2	
<b>Parameter</b>						
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	0.016 J	0.03 J	0.05
Barium, SPLP	0.1 J	0.11 J	0.057 J	0.13 J	0.21 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Chromium, SPLP	0.026	ND	ND	0.032	0.056	0.1
Cobalt, SPLP	ND	ND	ND	0.011 J	0.016 J	1
Copper, SPLP	0.037	ND	ND	0.053	0.076	0.65
Iron, SPLP	22 J+	2.9 J+	0.23 J+	34 J+	67 J+	5
Lead, SPLP	0.011	ND	ND	0.017	0.026	0.0075
Manganese, SPLP	0.12	0.019 J	0.031	0.18	0.22	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.022 J	ND	ND	0.041	0.063	0.1
Zinc, SPLP	0.11	0.037 J	0.036 J	0.14	0.22	5

**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	VL-8(0-5)-092914	VL-8(5-10)-092914	VL-9(0-5)-092914	VL-9(5-10)-092914	VL-10(0-5)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	VL-8	VL-8	VL-9	VL-9	VL-10	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5	
ISGS Site Number	3523-2	3523-2	3523-2	3523-2	3523-2	
Parameter						
Laboratory pH (s.u.)	8.15	8.45	8.66	8.46	8.49	<6.25, >9.0
<b>VOCs (ug/kg)</b>						
Acetone	ND	ND	ND	ND	ND	25000
<b>SVOCs (ug/kg)</b>						
Acenaphthylene	ND	ND	ND	ND	19 J	---
Anthracene	ND	ND	15 J	14 J	8.9 J	1.20E+07
Benzo(a)anthracene	ND	ND	75	46	52 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	92	41	61 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	130	47	82 J-	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	100	33 J	59 J	---
Benzo(k)fluoranthene	ND	ND	49	37	44 J	9000
Chrysene	ND	ND	98	48	55 J	88000
Dibenzo(a,h)anthracene	ND	ND	29 J	8 J	ND	90 / 200 / 420
Fluoranthene	ND	ND	150	110	65 J	3100000
Fluorene	ND	ND	8.2 J	6.9 J	ND	560000
Indeno(1,2,3-cd)pyrene	ND	ND	72	27 J	48 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	8.1 J	1800
Phenanthrene	ND	ND	81	78	22 J	---
Pyrene	ND	ND	170	110	69 J	2300000
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	1.2 J-	ND	ND	5
Arsenic, Total	6	13	6.9	9.8	6.4	11.3 / 13
Barium, Total	83 J	75 J	97 J	41 J	140 J	1500
Beryllium, Total	0.62	0.31	0.48	0.44	0.59	22
Cadmium, Total	0.1 J	0.31	0.52	0.32	0.34	5.2
Calcium, Total	3000 J	29000 J	86000 J	26000 J	25000 J	---
Chromium, Total	15 B	8.6 B	13 B	10 B	15 B	21
Cobalt, Total	6.2 J	7 J	4.4 J	6.1 J	8.7 J	20
Copper, Total	21 J	25 J	22 J	26 J	19 J	2900
Iron, Total	17000 J+	19000 J+	12000 J+	23000 J+	17000 J+	15000 / 15900
Lead, Total	19 J-	14 J-	49 J-	14 J-	25 J-	107
Magnesium, Total	2900 J	19000 J	32000 J	16000 J	7900 J	325000
Manganese, Total	440 J	990 J	340 J	710 J	570 J	630 / 636
Mercury, Total	0.094	0.02	0.023	0.021	0.036	0.89
Nickel, Total	17	21	12	20	16	100
Potassium, Total	1400 J+	1500 J+	1800 J+	1500 J+	2200 J+	---
Selenium, Total	0.27 J	ND	ND	ND	ND	1.3
Silver, Total	ND	0.057 J	0.031 J	ND	0.025 J	4.4
Sodium, Total	180	210	450	150	380	---
Thallium, Total	1.2	2	0.73	1.7	0.97	2.6
Vanadium, Total	21	11	18	16	20	550
Zinc, Total	57 B	48 B	70 B	46 B	60 B	5100
<b>TCLP Metals (mg/l)</b>						
Barium, TCLP	0.24 J	0.28 J	0.45 J	0.32 J	0.69	2
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Cobalt, TCLP	ND	ND	ND	ND	ND	1
Copper, TCLP	0.13	0.028	0.092	0.028	0.047	0.65
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.019 J	0.87	ND	0.11	ND	0.15
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Zinc, TCLP	0.047 J	0.032 J	0.048 J	0.03 J	0.037 J	5

**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	VL-8(0-5)-092914	VL-8(5-10)-092914	VL-9(0-5)-092914	VL-9(5-10)-092914	VL-10(0-5)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	VL-8	VL-8	VL-9	VL-9	VL-10	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5	
ISGS Site Number	3523-2	3523-2	3523-2	3523-2	3523-2	
Parameter						
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.015 J	0.05
Barium, SPLP	0.15 J	ND	0.12 J	0.064 J	0.28 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Chromium, SPLP	0.029	ND	0.019 J	ND	0.036	0.1
Cobalt, SPLP	ND	ND	ND	ND	0.011 J	1
Copper, SPLP	0.034 J	0.015 J	0.023 J	0.013 J	0.045 J	0.65
Iron, SPLP	21 J	3.3 J	17 J	0.69 J	40 J	5
Lead, SPLP	0.017 J	ND	0.044 J	ND	0.04 J	0.0075
Manganese, SPLP	0.079 J	0.037 J	0.18 J	ND	0.39 J	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.018 J	ND	0.015 J	ND	0.036 J	0.1
Zinc, SPLP	0.1 J	0.043 J	0.088 J	0.042 J	0.16 J	5

**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	VL-10(5-10)-092914	VL-10(5-10)-092914D	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	
Location ID	VL-10	VL-10	
Depth	5 - 10	5 - 10	
ISGS Site Number	3523-2	3523-2	
Parameter			
Laboratory pH (s.u.)	8.77	8.69	<6.25, >9.0
<b>VOCs (ug/kg)</b>			
Acetone	ND	ND	25000
<b>SVOCs (ug/kg)</b>			
Acenaphthylene	ND	ND	---
Anthracene	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	---
Benzo(k)fluoranthene	ND	ND	9000
Chrysene	ND	ND	88000
Dibenzo(a,h)anthracene	ND	ND	90 / 200 / 420
Fluoranthene	ND	ND	3100000
Fluorene	ND	ND	560000
Indeno(1,2,3-cd)pyrene	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	1800
Phenanthrene	ND	ND	---
Pyrene	ND	ND	2300000
<b>Total Metals (mg/kg)</b>			
Antimony, Total	ND	ND	5
Arsenic, Total	5.7	6.9	11.3 / 13
Barium, Total	120 J	150 J	1500
Beryllium, Total	0.56	0.58	22
Cadmium, Total	0.13	0.14	5.2
Calcium, Total	9300 J	12000 J	---
Chromium, Total	14 B	14 B	21
Cobalt, Total	6.1 J	6.2 J	20
Copper, Total	17 J	17 J	2900
Iron, Total	16000 J+	17000 J+	15000 / 15900
Lead, Total	17 J-	17 J-	107
Magnesium, Total	3800 J	4000 J	325000
Manganese, Total	240 J	270 J	630 / 636
Mercury, Total	0.016 J	0.015 J	0.89
Nickel, Total	15	15	100
Potassium, Total	2500 J+	2500 J+	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Sodium, Total	310	320	---
Thallium, Total	0.65	0.67	2.6
Vanadium, Total	18	20	550
Zinc, Total	58 B	48 B	5100
<b>TCLP Metals (mg/l)</b>			
Barium, TCLP	0.5	0.67	2
Cadmium, TCLP	ND	ND	0.005
Cobalt, TCLP	ND	ND	1
Copper, TCLP	0.093 J	0.045 J	0.65
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.084	0.098	0.15
Nickel, TCLP	ND	ND	0.1
Zinc, TCLP	0.051 J	0.036 J	5



**Summary Table of ISGS Site No. 2532-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	VL-10(5-10)-092914	VL-10(5-10)-092914D	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/29/2014	9/29/2014	
Location ID	VL-10	VL-10	
Depth	5 - 10	5 - 10	
ISGS Site Number	3523-2	3523-2	
Parameter			
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.052	0.045 J	0.05
Barium, SPLP	0.72	0.83	2
Beryllium, SPLP	0.0054	0.0059	0.004
Chromium, SPLP	0.1	0.13	0.1
Cobalt, SPLP	0.035	0.036	1
Copper, SPLP	0.12 J	0.14 J	0.65
Iron, SPLP	120 J	120 J	5
Lead, SPLP	0.13 J	0.14 J	0.0075
Manganese, SPLP	0.9 J	0.99 J	0.15
Mercury, SPLP	0.00037	0.00027	0.002
Nickel, SPLP	0.1 J	0.11 J	0.1
Zinc, SPLP	0.32 J	0.35 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.

B - Constituent detected in investigative and blank sample.

ND - Constituent not detected above the reporting limit.

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: 500-85075-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/17/2014 4:31:33 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
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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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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(0-5)-092914**

**Lab Sample ID: 500-85075-1**

**Date Collected: 09/29/14 08:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 79.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		6.3	2.7	ug/Kg	*		10/08/14 23:07	1
Benzene	<6.3		6.3	0.86	ug/Kg	*		10/08/14 23:07	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	*		10/08/14 23:07	1
Bromoform	<6.3		6.3	1.4	ug/Kg	*		10/08/14 23:07	1
Bromomethane	<6.3		6.3	1.9	ug/Kg	*		10/08/14 23:07	1
Carbon disulfide	<6.3		6.3	0.93	ug/Kg	*		10/08/14 23:07	1
Carbon tetrachloride	<6.3		6.3	1.1	ug/Kg	*		10/08/14 23:07	1
Chlorobenzene	<6.3		6.3	0.63	ug/Kg	*		10/08/14 23:07	1
Chloroethane	<6.3		6.3	1.7	ug/Kg	*		10/08/14 23:07	1
Chloroform	<6.3		6.3	0.72	ug/Kg	*		10/08/14 23:07	1
Chloromethane	<6.3		6.3	1.3	ug/Kg	*		10/08/14 23:07	1
cis-1,2-Dichloroethene	<6.3		6.3	0.88	ug/Kg	*		10/08/14 23:07	1
cis-1,3-Dichloropropene	<6.3		6.3	0.82	ug/Kg	*		10/08/14 23:07	1
Dibromochloromethane	<6.3		6.3	1.1	ug/Kg	*		10/08/14 23:07	1
1,1-Dichloroethane	<6.3		6.3	0.99	ug/Kg	*		10/08/14 23:07	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	*		10/08/14 23:07	1
1,1-Dichloroethene	<6.3		6.3	1.0	ug/Kg	*		10/08/14 23:07	1
1,2-Dichloropropane	<6.3		6.3	0.95	ug/Kg	*		10/08/14 23:07	1
1,3-Dichloropropene, Total	<6.3		6.3	0.82	ug/Kg	*		10/08/14 23:07	1
Ethylbenzene	<6.3		6.3	1.3	ug/Kg	*		10/08/14 23:07	1
2-Hexanone	<6.3		6.3	1.8	ug/Kg	*		10/08/14 23:07	1
Methylene Chloride	<6.3		6.3	1.7	ug/Kg	*		10/08/14 23:07	1
Methyl Ethyl Ketone	<6.3		6.3	2.3	ug/Kg	*		10/08/14 23:07	1
methyl isobutyl ketone	<6.3		6.3	1.6	ug/Kg	*		10/08/14 23:07	1
Methyl tert-butyl ether	<6.3		6.3	1.0	ug/Kg	*		10/08/14 23:07	1
Styrene	<6.3		6.3	0.82	ug/Kg	*		10/08/14 23:07	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	1.3	ug/Kg	*		10/08/14 23:07	1
Tetrachloroethene	<6.3		6.3	0.96	ug/Kg	*		10/08/14 23:07	1
Toluene	<6.3		6.3	0.88	ug/Kg	*		10/08/14 23:07	1
trans-1,2-Dichloroethene	<6.3		6.3	0.86	ug/Kg	*		10/08/14 23:07	1
trans-1,3-Dichloropropene	<6.3		6.3	1.1	ug/Kg	*		10/08/14 23:07	1
1,1,1-Trichloroethane	<6.3		6.3	0.93	ug/Kg	*		10/08/14 23:07	1
1,1,2-Trichloroethane	<6.3		6.3	0.85	ug/Kg	*		10/08/14 23:07	1
Trichloroethene	<6.3		6.3	1.0	ug/Kg	*		10/08/14 23:07	1
Vinyl chloride	<6.3		6.3	1.3	ug/Kg	*		10/08/14 23:07	1
Xylenes, Total	<13		13	0.57	ug/Kg	*		10/08/14 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		10/08/14 23:07	1
Dibromofluoromethane	106		75 - 120		10/08/14 23:07	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		10/08/14 23:07	1
Toluene-d8 (Surr)	100		75 - 122		10/08/14 23:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	*	10/09/14 06:56	10/17/14 11:49	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	*	10/09/14 06:56	10/17/14 11:49	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	*	10/09/14 06:56	10/17/14 11:49	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	*	10/09/14 06:56	10/17/14 11:49	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	*	10/09/14 06:56	10/17/14 11:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(0-5)-092914**

**Lab Sample ID: 500-85075-1**

**Date Collected: 09/29/14 08:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	93	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2,4-Dimethylphenol	<410		410	150	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2-Methylphenol	<210		210	66	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
2-Nitrophenol	<410		410	96	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
4,6-Dinitro-2-methylphenol	<410		410	330	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Acenaphthene	<41		41	7.3	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Acenaphthylene</b>	<b>19</b>	<b>J</b>	41	5.4	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Anthracene</b>	<b>8.9</b>	<b>J</b>	41	6.8	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Benzo[a]anthracene</b>	<b>52</b>		41	5.5	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Benzo[a]pyrene</b>	<b>61</b>		41	7.9	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Benzo[b]fluoranthene</b>	<b>82</b>		41	8.8	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Benzo[g,h,i]perylene</b>	<b>59</b>		41	13	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Benzo[k]fluoranthene</b>	<b>44</b>		41	12	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Carbazole	<210		210	110	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Chrysene</b>	<b>55</b>		41	11	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Dibenz(a,h)anthracene	<41		41	7.9	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Dibenzofuran	<210		210	48	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Fluoranthene</b>	<b>65</b>		41	7.6	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Fluorene	<41		41	5.7	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Hexachlorocyclopentadiene	<820	*	820	230	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Hexachloroethane	<210		210	62	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(0-5)-092914**

**Lab Sample ID: 500-85075-1**

**Date Collected: 09/29/14 08:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 79.9**

**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>48</b>		41	11	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Isophorone	<210		210	46	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Naphthalene</b>	<b>8.1 J</b>		41	6.3	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Nitrobenzene	<41		41	10	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Pentachlorophenol	<820		820	660	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Phenanthrene</b>	<b>22 J</b>		41	5.7	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
Phenol	<210		210	91	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Pyrene</b>	<b>69</b>		41	8.1	ug/Kg	☼	10/09/14 06:56	10/17/14 11:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	73		35 - 137				10/09/14 06:56	10/17/14 11:49	1
<i>2-Fluorobiphenyl</i>	67		25 - 119				10/09/14 06:56	10/17/14 11:49	1
<i>2-Fluorophenol</i>	65		25 - 110				10/09/14 06:56	10/17/14 11:49	1
<i>Nitrobenzene-d5</i>	65		25 - 115				10/09/14 06:56	10/17/14 11:49	1
<i>Phenol-d5</i>	66		31 - 110				10/09/14 06:56	10/17/14 11:49	1
<i>Terphenyl-d14</i>	82		36 - 134				10/09/14 06:56	10/17/14 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 12:20	1
<b>Barium</b>	<b>0.69</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 12:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 12:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 12:20	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:20	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:20	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:20	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 12:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 12:20	1
Manganese	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:20	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:20	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 12:20	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:20	1
<b>Zinc</b>	<b>0.037 J</b>		0.10	0.020	mg/L		10/13/14 08:45	10/14/14 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015 J</b>		0.050	0.010	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Barium</b>	<b>0.28 J</b>		0.50	0.050	mg/L		10/10/14 10:45	10/11/14 12:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 12:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Chromium</b>	<b>0.036</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Cobalt</b>	<b>0.011 J</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Copper</b>	<b>0.045</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Iron</b>	<b>40</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Lead</b>	<b>0.040</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Manganese</b>	<b>0.39</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:52	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:52	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 12:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(0-5)-092914**

**Lab Sample ID: 500-85075-1**

Date Collected: 09/29/14 08:30

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 12:52	1
<b>Zinc</b>	<b>0.16</b>		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 12:52	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Arsenic</b>	<b>6.4</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Barium</b>	<b>140</b>		0.58	0.062	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Beryllium</b>	<b>0.59</b>		0.23	0.046	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Cadmium</b>	<b>0.34</b>		0.12	0.015	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Calcium</b>	<b>25000</b>		12	3.1	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.58	0.067	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Cobalt</b>	<b>8.7</b>		0.29	0.058	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Copper</b>	<b>19</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Iron</b>	<b>17000</b>		12	4.8	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Lead</b>	<b>25</b>		0.29	0.086	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Magnesium</b>	<b>7900</b>		5.8	1.2	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Manganese</b>	<b>570</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Nickel</b>	<b>16</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Potassium</b>	<b>2200</b>		29	1.7	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Silver</b>	<b>0.025</b>	<b>J</b>	0.29	0.021	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Sodium</b>	<b>380</b>		58	7.8	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Thallium</b>	<b>0.97</b>		0.58	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Vanadium</b>	<b>20</b>		0.29	0.043	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1
<b>Zinc</b>	<b>60</b>	<b>B</b>	1.2	0.23	mg/Kg	☼	10/08/14 10:30	10/10/14 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:01	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>36</b>		21	8.1	ug/Kg	☼	10/07/14 14:00	10/08/14 13:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.49</b>		0.200	0.200	SU			10/09/14 09:50	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914**

**Lab Sample ID: 500-85075-2**

**Date Collected: 09/29/14 08:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	☼		10/09/14 00:19	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		10/09/14 00:19	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		10/09/14 00:19	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/09/14 00:19	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		10/09/14 00:19	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		10/09/14 00:19	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 00:19	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/09/14 00:19	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		10/09/14 00:19	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		10/09/14 00:19	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/09/14 00:19	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		10/09/14 00:19	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		10/09/14 00:19	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 00:19	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		10/09/14 00:19	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		10/09/14 00:19	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		10/09/14 00:19	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		10/09/14 00:19	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		10/09/14 00:19	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/09/14 00:19	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		10/09/14 00:19	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		10/09/14 00:19	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/09/14 00:19	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/09/14 00:19	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/09/14 00:19	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		10/09/14 00:19	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/09/14 00:19	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		10/09/14 00:19	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		10/09/14 00:19	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		10/09/14 00:19	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 00:19	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/09/14 00:19	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		10/09/14 00:19	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/09/14 00:19	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/09/14 00:19	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/09/14 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/09/14 00:19	1
Dibromofluoromethane	99		75 - 120		10/09/14 00:19	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		10/09/14 00:19	1
Toluene-d8 (Surr)	99		75 - 122		10/09/14 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914**

**Lab Sample ID: 500-85075-2**

**Date Collected: 09/29/14 08:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
4-Chloroaniline	<790		790	190	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Carbazole	<200		200	100	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Chrysene	<39		39	11	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Hexachlorocyclopentadiene	<790 *		790	230	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914**

**Lab Sample ID: 500-85075-2**

**Date Collected: 09/29/14 08:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 82.2**

**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	<39		39	10	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Isophorone	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Naphthalene	<39		39	6.1	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Phenol	<200		200	88	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Pyrene	<39		39	7.8	ug/Kg	☼	10/09/14 06:56	10/16/14 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137				10/09/14 06:56	10/16/14 18:01	1
2-Fluorobiphenyl	67		25 - 119				10/09/14 06:56	10/16/14 18:01	1
2-Fluorophenol	77		25 - 110				10/09/14 06:56	10/16/14 18:01	1
Nitrobenzene-d5	72		25 - 115				10/09/14 06:56	10/16/14 18:01	1
Phenol-d5	60		31 - 110				10/09/14 06:56	10/16/14 18:01	1
Terphenyl-d14	85		36 - 134				10/09/14 06:56	10/16/14 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 12:25	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 12:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 12:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 12:25	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:25	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:25	1
<b>Copper</b>	<b>0.093</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:25	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 12:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 12:25	1
<b>Manganese</b>	<b>0.084</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:25	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:25	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 12:25	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:25	1
<b>Zinc</b>	<b>0.051 J</b>		0.10	0.020	mg/L		10/13/14 08:45	10/14/14 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.052</b>		0.050	0.010	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Barium</b>	<b>0.72</b>		0.50	0.050	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Beryllium</b>	<b>0.0054</b>		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 12:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Chromium</b>	<b>0.10</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Cobalt</b>	<b>0.035</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Manganese</b>	<b>0.90</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:58	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 12:58	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 12:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914**

**Lab Sample ID: 500-85075-2**

Date Collected: 09/29/14 08:35

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 12:58	1
<b>Zinc</b>	<b>0.32</b>		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 12:58	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Arsenic</b>	<b>5.7</b>		0.58	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Barium</b>	<b>120</b>		0.58	0.062	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Beryllium</b>	<b>0.56</b>		0.23	0.046	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Cadmium</b>	<b>0.13</b>		0.12	0.015	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Calcium</b>	<b>9300</b>		12	3.1	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.58	0.067	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Cobalt</b>	<b>6.1</b>		0.29	0.058	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Copper</b>	<b>17</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Iron</b>	<b>16000</b>		12	4.7	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Lead</b>	<b>17</b>		0.29	0.086	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Magnesium</b>	<b>3800</b>		5.8	1.2	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Manganese</b>	<b>240</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Nickel</b>	<b>15</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Potassium</b>	<b>2500</b>		29	1.7	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Sodium</b>	<b>310</b>		58	7.7	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Thallium</b>	<b>0.65</b>		0.58	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Vanadium</b>	<b>18</b>		0.29	0.043	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1
<b>Zinc</b>	<b>58</b>	<b>B</b>	1.2	0.23	mg/Kg	☼	10/08/14 10:30	10/10/14 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.37</b>		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:03	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>	<b>J</b>	19	7.4	ug/Kg	☼	10/07/14 14:00	10/08/14 13:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.77</b>		0.200	0.200	SU			10/09/14 10:04	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914D**

**Lab Sample ID: 500-85075-3**

**Date Collected: 09/29/14 08:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		10/09/14 00:43	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		10/09/14 00:43	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/09/14 00:43	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/09/14 00:43	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/09/14 00:43	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/09/14 00:43	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/09/14 00:43	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/09/14 00:43	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 00:43	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/09/14 00:43	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/09/14 00:43	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/09/14 00:43	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/09/14 00:43	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/09/14 00:43	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/09/14 00:43	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/09/14 00:43	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/09/14 00:43	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/09/14 00:43	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/09/14 00:43	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/09/14 00:43	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/09/14 00:43	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 00:43	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/09/14 00:43	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 00:43	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/09/14 00:43	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/09/14 00:43	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/09/14 00:43	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/09/14 00:43	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/09/14 00:43	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/09/14 00:43	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/09/14 00:43	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/09/14 00:43	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/09/14 00:43	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/09/14 00:43	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/09/14 00:43	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/09/14 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		10/09/14 00:43	1
Dibromofluoromethane	104		75 - 120		10/09/14 00:43	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		10/09/14 00:43	1
Toluene-d8 (Surr)	100		75 - 122		10/09/14 00:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914D**

**Lab Sample ID: 500-85075-3**

**Date Collected: 09/29/14 08:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	91	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
4-Chloro-3-methylphenol	<390		390	140	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Benzo[a]pyrene	<39		39	7.7	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Benzo[b]fluoranthene	<39		39	8.6	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Carbazole	<200		200	100	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Chrysene	<39		39	11	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Dibenz(a,h)anthracene	<39		39	7.7	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Fluoranthene	<39		39	7.4	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Fluorene	<39		39	5.6	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Hexachlorocyclopentadiene	<800 *		800	230	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914D**

**Lab Sample ID: 500-85075-3**

**Date Collected: 09/29/14 08:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.0**

**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	<39		39	10	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Naphthalene	<39		39	6.1	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Phenol	<200		200	88	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Pyrene	<39		39	7.9	ug/Kg	☼	10/09/14 06:56	10/16/14 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137				10/09/14 06:56	10/16/14 18:20	1
2-Fluorobiphenyl	37		25 - 119				10/09/14 06:56	10/16/14 18:20	1
2-Fluorophenol	49		25 - 110				10/09/14 06:56	10/16/14 18:20	1
Nitrobenzene-d5	39		25 - 115				10/09/14 06:56	10/16/14 18:20	1
Phenol-d5	36		31 - 110				10/09/14 06:56	10/16/14 18:20	1
Terphenyl-d14	59		36 - 134				10/09/14 06:56	10/16/14 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 12:37	1
<b>Barium</b>	<b>0.67</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 12:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 12:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 12:37	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:37	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:37	1
<b>Copper</b>	<b>0.045</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:37	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 12:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 12:37	1
<b>Manganese</b>	<b>0.098</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:37	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:37	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 12:37	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:37	1
<b>Zinc</b>	<b>0.036 J</b>		0.10	0.020	mg/L		10/13/14 08:45	10/14/14 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.045 J</b>		0.050	0.010	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Barium</b>	<b>0.83</b>		0.50	0.050	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 13:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Cobalt</b>	<b>0.036</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Manganese</b>	<b>0.99</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:23	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:23	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 13:23	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-10(5-10)-092914D**

**Lab Sample ID: 500-85075-3**

Date Collected: 09/29/14 08:35

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 13:23	1
<b>Zinc</b>	<b>0.35</b>		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 13:23	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Arsenic</b>	<b>6.9</b>		0.60	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Barium</b>	<b>150</b>		0.60	0.064	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Beryllium</b>	<b>0.58</b>		0.24	0.048	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Cadmium</b>	<b>0.14</b>		0.12	0.015	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Calcium</b>	<b>12000</b>		12	3.2	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.60	0.069	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Cobalt</b>	<b>6.2</b>		0.30	0.060	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Copper</b>	<b>17</b>		0.60	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Iron</b>	<b>17000</b>		12	4.9	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Lead</b>	<b>17</b>		0.30	0.089	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Magnesium</b>	<b>4000</b>		6.0	1.2	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Manganese</b>	<b>270</b>		0.60	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Nickel</b>	<b>15</b>		0.60	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Potassium</b>	<b>2500</b>		30	1.8	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Sodium</b>	<b>320</b>		60	8.0	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Thallium</b>	<b>0.67</b>		0.60	0.25	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Vanadium</b>	<b>20</b>		0.30	0.044	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.27</b>		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:05	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>15</b>	<b>J</b>	18	6.9	ug/Kg	☼	10/09/14 12:00	10/10/14 13:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.69</b>		0.200	0.200	SU			10/09/14 10:11	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(0-5)-092914**

**Lab Sample ID: 500-85075-4**

**Date Collected: 09/29/14 08:50**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	☼		10/09/14 01:07	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		10/09/14 01:07	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 01:07	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/09/14 01:07	1
Bromomethane	<6.1		6.1	1.9	ug/Kg	☼		10/09/14 01:07	1
Carbon disulfide	<6.1		6.1	0.92	ug/Kg	☼		10/09/14 01:07	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 01:07	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/09/14 01:07	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		10/09/14 01:07	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		10/09/14 01:07	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/09/14 01:07	1
cis-1,2-Dichloroethene	<6.1		6.1	0.87	ug/Kg	☼		10/09/14 01:07	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		10/09/14 01:07	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 01:07	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		10/09/14 01:07	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/09/14 01:07	1
1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		10/09/14 01:07	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		10/09/14 01:07	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		10/09/14 01:07	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/09/14 01:07	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		10/09/14 01:07	1
Methylene Chloride	<6.1		6.1	1.7	ug/Kg	☼		10/09/14 01:07	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/09/14 01:07	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/09/14 01:07	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/09/14 01:07	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		10/09/14 01:07	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/09/14 01:07	1
Tetrachloroethene	<6.1		6.1	0.94	ug/Kg	☼		10/09/14 01:07	1
Toluene	<6.1		6.1	0.86	ug/Kg	☼		10/09/14 01:07	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		10/09/14 01:07	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 01:07	1
1,1,1-Trichloroethane	<6.1		6.1	0.92	ug/Kg	☼		10/09/14 01:07	1
1,1,2-Trichloroethane	<6.1		6.1	0.84	ug/Kg	☼		10/09/14 01:07	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/09/14 01:07	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/09/14 01:07	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/09/14 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		10/09/14 01:07	1
Dibromofluoromethane	103		75 - 120		10/09/14 01:07	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		10/09/14 01:07	1
Toluene-d8 (Surr)	99		75 - 122		10/09/14 01:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(0-5)-092914**

**Lab Sample ID: 500-85075-4**

**Date Collected: 09/29/14 08:50**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2-Methylnaphthalene	<40		40	7.3	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Anthracene</b>	<b>15 J</b>		40	6.7	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Benzo[a]anthracene</b>	<b>75</b>		40	5.4	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Benzo[a]pyrene</b>	<b>92</b>		40	7.7	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Benzo[b]fluoranthene</b>	<b>130</b>		40	8.6	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Benzo[g,h,i]perylene</b>	<b>100</b>		40	13	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Benzo[k]fluoranthene</b>	<b>49</b>		40	12	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Carbazole	<200		200	100	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Chrysene</b>	<b>98</b>		40	11	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Dibenz(a,h)anthracene</b>	<b>29 J</b>		40	7.7	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Dibenzofuran	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Fluoranthene</b>	<b>150</b>		40	7.4	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Fluorene</b>	<b>8.2 J</b>		40	5.6	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Hexachlorocyclopentadiene	<800 *		800	230	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(0-5)-092914**

**Lab Sample ID: 500-85075-4**

**Date Collected: 09/29/14 08:50**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.6**

**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>72</b>		40	10	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Naphthalene	<40		40	6.1	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Phenanthrene</b>	<b>81</b>		40	5.6	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Phenol	<200		200	89	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
<b>Pyrene</b>	<b>170</b>		40	7.9	ug/Kg	☼	10/09/14 06:56	10/17/14 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137				10/09/14 06:56	10/17/14 11:26	1
2-Fluorobiphenyl	59		25 - 119				10/09/14 06:56	10/17/14 11:26	1
2-Fluorophenol	55		25 - 110				10/09/14 06:56	10/17/14 11:26	1
Nitrobenzene-d5	55		25 - 115				10/09/14 06:56	10/17/14 11:26	1
Phenol-d5	52		31 - 110				10/09/14 06:56	10/17/14 11:26	1
Terphenyl-d14	70		36 - 134				10/09/14 06:56	10/17/14 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 12:43	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 12:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 12:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 12:43	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:43	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:43	1
<b>Copper</b>	<b>0.092</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:43	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 12:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 12:43	1
Manganese	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:43	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:43	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 12:43	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:43	1
<b>Zinc</b>	<b>0.048</b>	<b>J</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 12:43	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		10/10/14 10:45	10/11/14 13:30	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 10:45	10/11/14 13:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 13:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 13:30	1
<b>Chromium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:30	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:30	1
<b>Copper</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:30	1
<b>Iron</b>	<b>17</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 13:30	1
<b>Lead</b>	<b>0.044</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 13:30	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:30	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:30	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 13:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(0-5)-092914**

**Lab Sample ID: 500-85075-4**

Date Collected: 09/29/14 08:50

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 13:30	1
Zinc	0.088	J	0.10	0.020	mg/L		10/10/14 10:45	10/11/14 13:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.47	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Arsenic	6.9		0.59	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Barium	97		0.59	0.063	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Beryllium	0.48		0.24	0.047	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Cadmium	0.52		0.12	0.015	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Calcium	86000		120	32	mg/Kg	☼	10/08/14 10:30	10/11/14 15:49	10
Chromium	13	B	0.59	0.068	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Cobalt	4.4		0.29	0.059	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Copper	22		0.59	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Iron	12000		12	4.8	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Lead	49		0.29	0.088	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Magnesium	32000		5.9	1.2	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Manganese	340		0.59	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Nickel	12		0.59	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Potassium	1800		29	1.8	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Silver	0.031	J	0.29	0.021	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Sodium	450		59	7.9	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Thallium	0.73		0.59	0.25	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Vanadium	18		0.29	0.044	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1
Zinc	70	B	1.2	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:07	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		19	7.3	ug/Kg	☼	10/07/14 14:00	10/08/14 13:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU			10/09/14 10:18	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(5-10)-092914**

**Lab Sample ID: 500-85075-5**

**Date Collected: 09/29/14 08:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		10/09/14 01:31	1
Benzene	<5.8		5.8	0.80	ug/Kg	*		10/09/14 01:31	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	*		10/09/14 01:31	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		10/09/14 01:31	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	*		10/09/14 01:31	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	*		10/09/14 01:31	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	*		10/09/14 01:31	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	*		10/09/14 01:31	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		10/09/14 01:31	1
Chloroform	<5.8		5.8	0.67	ug/Kg	*		10/09/14 01:31	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		10/09/14 01:31	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	*		10/09/14 01:31	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	*		10/09/14 01:31	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		10/09/14 01:31	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	*		10/09/14 01:31	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	*		10/09/14 01:31	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	*		10/09/14 01:31	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	*		10/09/14 01:31	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	*		10/09/14 01:31	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		10/09/14 01:31	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		10/09/14 01:31	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		10/09/14 01:31	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		10/09/14 01:31	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		10/09/14 01:31	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	*		10/09/14 01:31	1
Styrene	<5.8		5.8	0.76	ug/Kg	*		10/09/14 01:31	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		10/09/14 01:31	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	*		10/09/14 01:31	1
Toluene	<5.8		5.8	0.81	ug/Kg	*		10/09/14 01:31	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	*		10/09/14 01:31	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	*		10/09/14 01:31	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	*		10/09/14 01:31	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	*		10/09/14 01:31	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	*		10/09/14 01:31	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		10/09/14 01:31	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		10/09/14 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122		10/09/14 01:31	1
Dibromofluoromethane	107		75 - 120		10/09/14 01:31	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		10/09/14 01:31	1
Toluene-d8 (Surr)	100		75 - 122		10/09/14 01:31	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	40	ug/Kg	*	10/09/14 06:56	10/17/14 12:12	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	*	10/09/14 06:56	10/17/14 12:12	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	10/09/14 06:56	10/17/14 12:12	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	*	10/09/14 06:56	10/17/14 12:12	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	*	10/09/14 06:56	10/17/14 12:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(5-10)-092914**

**Lab Sample ID: 500-85075-5**

**Date Collected: 09/29/14 08:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2-Methylphenol	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Anthracene</b>	<b>14</b>	<b>J</b>	37	6.2	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Benzo[a]anthracene</b>	<b>46</b>		37	5.0	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Benzo[a]pyrene</b>	<b>41</b>		37	7.2	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Benzo[b]fluoranthene</b>	<b>47</b>		37	8.0	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Benzo[g,h,i]perylene</b>	<b>33</b>	<b>J</b>	37	12	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Benzo[k]fluoranthene</b>	<b>37</b>		37	11	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Carbazole	<190		190	95	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Chrysene</b>	<b>48</b>		37	10	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Dibenz(a,h)anthracene</b>	<b>8.0</b>	<b>J</b>	37	7.1	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Dibenzofuran	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Fluoranthene</b>	<b>110</b>		37	6.9	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Fluorene</b>	<b>6.9</b>	<b>J</b>	37	5.2	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Hexachlorocyclopentadiene	<750	*	750	210	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Hexachloroethane	<190		190	56	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(5-10)-092914**

**Lab Sample ID: 500-85075-5**

**Date Collected: 09/29/14 08:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.1**

**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>27</b>	<b>J</b>	37	9.6	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Isophorone	<190		190	41	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Naphthalene	<37		37	5.7	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Phenanthrene</b>	<b>78</b>		37	5.1	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
Phenol	<190		190	82	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Pyrene</b>	<b>110</b>		37	7.3	ug/Kg	☼	10/09/14 06:56	10/17/14 12:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	47		35 - 137				10/09/14 06:56	10/17/14 12:12	1
<i>2-Fluorobiphenyl</i>	44		25 - 119				10/09/14 06:56	10/17/14 12:12	1
<i>2-Fluorophenol</i>	44		25 - 110				10/09/14 06:56	10/17/14 12:12	1
<i>Nitrobenzene-d5</i>	41		25 - 115				10/09/14 06:56	10/17/14 12:12	1
<i>Phenol-d5</i>	45		31 - 110				10/09/14 06:56	10/17/14 12:12	1
<i>Terphenyl-d14</i>	61		36 - 134				10/09/14 06:56	10/17/14 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 12:48	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 12:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 12:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 12:48	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:48	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:48	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:48	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 12:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 12:48	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:48	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:48	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 12:48	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:48	1
<b>Zinc</b>	<b>0.030</b>	<b>J</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 12:48	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		10/10/14 10:45	10/11/14 13:36	1
<b>Barium</b>	<b>0.064</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 10:45	10/11/14 13:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 13:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 13:36	1
Chromium	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:36	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:36	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:36	1
<b>Iron</b>	<b>0.69</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 13:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 13:36	1
Manganese	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:36	1
Nickel	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:36	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 13:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-9(5-10)-092914**

**Lab Sample ID: 500-85075-5**

Date Collected: 09/29/14 08:55

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 13:36	1
Zinc	0.042	J	0.10	0.020	mg/L		10/10/14 10:45	10/11/14 13:36	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	☼	10/08/14 10:30	10/10/14 17:55	1
Arsenic	9.8		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Barium	41		0.56	0.060	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Beryllium	0.44		0.22	0.045	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Cadmium	0.32		0.11	0.014	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Calcium	26000		11	3.0	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Chromium	10	B	0.56	0.065	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Cobalt	6.1		0.28	0.056	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Copper	26		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Iron	23000		11	4.6	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Lead	14		0.28	0.083	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Magnesium	16000		5.6	1.1	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Manganese	710		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Nickel	20		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Potassium	1500		28	1.7	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Sodium	150		56	7.5	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Thallium	1.7		0.56	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Vanadium	16		0.28	0.041	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1
Zinc	46	B	1.1	0.22	mg/Kg	☼	10/08/14 10:30	10/10/14 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:09	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	21		18	7.2	ug/Kg	☼	10/07/14 14:00	10/08/14 13:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			10/09/14 10:25	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(0-5)-092914**

**Lab Sample ID: 500-85075-6**

**Date Collected: 09/29/14 09:20**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		10/09/14 01:55	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		10/09/14 01:55	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 01:55	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/09/14 01:55	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/09/14 01:55	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		10/09/14 01:55	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 01:55	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/09/14 01:55	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		10/09/14 01:55	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		10/09/14 01:55	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/09/14 01:55	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		10/09/14 01:55	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		10/09/14 01:55	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 01:55	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		10/09/14 01:55	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/09/14 01:55	1
1,1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/09/14 01:55	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		10/09/14 01:55	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		10/09/14 01:55	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		10/09/14 01:55	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/09/14 01:55	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		10/09/14 01:55	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		10/09/14 01:55	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/09/14 01:55	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/09/14 01:55	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		10/09/14 01:55	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		10/09/14 01:55	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		10/09/14 01:55	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		10/09/14 01:55	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		10/09/14 01:55	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 01:55	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/09/14 01:55	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		10/09/14 01:55	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/09/14 01:55	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/09/14 01:55	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/09/14 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		10/09/14 01:55	1
Dibromofluoromethane	105		75 - 120		10/09/14 01:55	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/09/14 01:55	1
Toluene-d8 (Surr)	97		75 - 122		10/09/14 01:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(0-5)-092914**

**Lab Sample ID: 500-85075-6**

**Date Collected: 09/29/14 09:20**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Anthracene	<40		40	6.7	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Benzo[b]fluoranthene	<40		40	8.6	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Carbazole	<200		200	100	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Chrysene	<40		40	11	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Dibenzofuran	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Fluoranthene	<40		40	7.4	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Fluorene	<40		40	5.6	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Hexachlorocyclopentadiene	<810 *		810	230	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(0-5)-092914**

**Lab Sample ID: 500-85075-6**

**Date Collected: 09/29/14 09:20**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.0**

**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	<40		40	10	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Naphthalene	<40		40	6.2	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Phenol	<200		200	89	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Pyrene	<40		40	8.0	ug/Kg	☼	10/09/14 06:56	10/16/14 07:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		35 - 137				10/09/14 06:56	10/16/14 07:48	1
2-Fluorobiphenyl	47		25 - 119				10/09/14 06:56	10/16/14 07:48	1
2-Fluorophenol	41		25 - 110				10/09/14 06:56	10/16/14 07:48	1
Nitrobenzene-d5	45		25 - 115				10/09/14 06:56	10/16/14 07:48	1
Phenol-d5	38		31 - 110				10/09/14 06:56	10/16/14 07:48	1
Terphenyl-d14	81		36 - 134				10/09/14 06:56	10/16/14 07:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 12:53	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 12:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 12:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 12:53	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:53	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:53	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:53	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 12:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 12:53	1
<b>Manganese</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:53	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:53	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 12:53	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:53	1
<b>Zinc</b>	<b>0.047</b>	<b>J</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 12:53	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		10/10/14 10:45	10/11/14 13:57	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 10:45	10/11/14 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 13:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 13:57	1
<b>Chromium</b>	<b>0.029</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:57	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:57	1
<b>Copper</b>	<b>0.034</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:57	1
<b>Iron</b>	<b>21</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 13:57	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 13:57	1
<b>Manganese</b>	<b>0.079</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:57	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 13:57	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 13:57	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(0-5)-092914**

**Lab Sample ID: 500-85075-6**

Date Collected: 09/29/14 09:20

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 13:57	1
<b>Zinc</b>	<b>0.10</b>		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 13:57	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Arsenic</b>	<b>6.0</b>		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Barium</b>	<b>83</b>		0.61	0.066	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Beryllium</b>	<b>0.62</b>		0.25	0.049	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Cadmium</b>	<b>0.10</b>	J	0.12	0.016	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Calcium</b>	<b>3000</b>		12	3.3	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Chromium</b>	<b>15</b>	B	0.61	0.071	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Cobalt</b>	<b>6.2</b>		0.31	0.061	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Copper</b>	<b>21</b>		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Iron</b>	<b>17000</b>		12	5.1	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Lead</b>	<b>19</b>		0.31	0.092	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Magnesium</b>	<b>2900</b>		6.1	1.3	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Manganese</b>	<b>440</b>		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Nickel</b>	<b>17</b>		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Potassium</b>	<b>1400</b>		31	1.9	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Selenium</b>	<b>0.27</b>	J	0.61	0.22	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Sodium</b>	<b>180</b>		61	8.2	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Thallium</b>	<b>1.2</b>		0.61	0.26	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Vanadium</b>	<b>21</b>		0.31	0.045	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1
<b>Zinc</b>	<b>57</b>	B	1.2	0.25	mg/Kg	☼	10/08/14 10:30	10/10/14 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>94</b>		20	7.8	ug/Kg	☼	10/07/14 14:00	10/08/14 13:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.15</b>		0.200	0.200	SU			10/09/14 10:32	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(5-10)-092914**

**Lab Sample ID: 500-85075-7**

**Date Collected: 09/29/14 09:25**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.7	ug/Kg	☼		10/09/14 02:19	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		10/09/14 02:19	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 02:19	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/09/14 02:19	1
Bromomethane	<6.1		6.1	1.9	ug/Kg	☼		10/09/14 02:19	1
Carbon disulfide	<6.1		6.1	0.92	ug/Kg	☼		10/09/14 02:19	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 02:19	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/09/14 02:19	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		10/09/14 02:19	1
Chloroform	<6.1		6.1	0.71	ug/Kg	☼		10/09/14 02:19	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/09/14 02:19	1
cis-1,2-Dichloroethene	<6.1		6.1	0.87	ug/Kg	☼		10/09/14 02:19	1
cis-1,3-Dichloropropene	<6.1		6.1	0.81	ug/Kg	☼		10/09/14 02:19	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 02:19	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		10/09/14 02:19	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/09/14 02:19	1
1,1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		10/09/14 02:19	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		10/09/14 02:19	1
1,3-Dichloropropene, Total	<6.1		6.1	0.81	ug/Kg	☼		10/09/14 02:19	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/09/14 02:19	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		10/09/14 02:19	1
Methylene Chloride	<6.1		6.1	1.7	ug/Kg	☼		10/09/14 02:19	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/09/14 02:19	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/09/14 02:19	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/09/14 02:19	1
Styrene	<6.1		6.1	0.81	ug/Kg	☼		10/09/14 02:19	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/09/14 02:19	1
Tetrachloroethene	<6.1		6.1	0.94	ug/Kg	☼		10/09/14 02:19	1
Toluene	<6.1		6.1	0.86	ug/Kg	☼		10/09/14 02:19	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		10/09/14 02:19	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/09/14 02:19	1
1,1,1-Trichloroethane	<6.1		6.1	0.92	ug/Kg	☼		10/09/14 02:19	1
1,1,2-Trichloroethane	<6.1		6.1	0.84	ug/Kg	☼		10/09/14 02:19	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/09/14 02:19	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/09/14 02:19	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/09/14 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		10/09/14 02:19	1
Dibromofluoromethane	103		75 - 120		10/09/14 02:19	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		10/09/14 02:19	1
Toluene-d8 (Surr)	98		75 - 122		10/09/14 02:19	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	☼	10/09/14 06:56	10/16/14 19:00	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(5-10)-092914**

**Lab Sample ID: 500-85075-7**

**Date Collected: 09/29/14 09:25**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.4**

**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	☼	10/09/14 06:56	10/16/14 19:00	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Anthracene	<38		38	6.5	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Carbazole	<190		190	100	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Chrysene	<38		38	11	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Hexachlorocyclopentadiene	<780 *		780	220	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(5-10)-092914**

**Lab Sample ID: 500-85075-7**

**Date Collected: 09/29/14 09:25**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.4**

**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	☼	10/09/14 06:56	10/16/14 19:00	1
Isophorone	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Phenol	<190		190	86	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Pyrene	<38		38	7.7	ug/Kg	☼	10/09/14 06:56	10/16/14 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		35 - 137				10/09/14 06:56	10/16/14 19:00	1
2-Fluorobiphenyl	55		25 - 119				10/09/14 06:56	10/16/14 19:00	1
2-Fluorophenol	66		25 - 110				10/09/14 06:56	10/16/14 19:00	1
Nitrobenzene-d5	55		25 - 115				10/09/14 06:56	10/16/14 19:00	1
Phenol-d5	50		31 - 110				10/09/14 06:56	10/16/14 19:00	1
Terphenyl-d14	77		36 - 134				10/09/14 06:56	10/16/14 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 12:58	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 12:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 12:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 12:58	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:58	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:58	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:58	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 12:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 12:58	1
<b>Manganese</b>	<b>0.87</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:58	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:58	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 12:58	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 12:58	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 12:58	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		10/10/14 10:45	10/11/14 14:03	1
Barium	<0.50		0.50	0.050	mg/L		10/10/14 10:45	10/11/14 14:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 14:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 14:03	1
Chromium	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:03	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:03	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:03	1
<b>Iron</b>	<b>3.3</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 14:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 14:03	1
<b>Manganese</b>	<b>0.037</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:03	1
Nickel	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:03	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 14:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-8(5-10)-092914**

**Lab Sample ID: 500-85075-7**

Date Collected: 09/29/14 09:25

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 14:03	1
Zinc	0.043	J	0.10	0.020	mg/L		10/10/14 10:45	10/11/14 14:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Arsenic	13		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Barium	75		0.61	0.065	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Beryllium	0.31		0.24	0.049	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Cadmium	0.31		0.12	0.016	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Calcium	29000		12	3.3	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Chromium	8.6	B	0.61	0.071	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Cobalt	7.0		0.31	0.061	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Copper	25		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Iron	19000		12	5.0	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Lead	14		0.31	0.091	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Magnesium	19000		6.1	1.3	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Manganese	990		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Nickel	21		0.61	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Potassium	1500		31	1.8	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Silver	0.057	J	0.31	0.022	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Sodium	210		61	8.2	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Thallium	2.0		0.61	0.26	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Vanadium	11		0.31	0.045	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1
Zinc	48	B	1.2	0.25	mg/Kg	☼	10/08/14 10:30	10/10/14 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:12	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	20		20	7.8	ug/Kg	☼	10/07/14 14:00	10/08/14 13:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU			10/09/14 10:40	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(0-5)-092914**

**Lab Sample ID: 500-85075-11**

**Date Collected: 09/29/14 09:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		10/09/14 03:56	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 03:56	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 03:56	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/09/14 03:56	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/09/14 03:56	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 03:56	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 03:56	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/09/14 03:56	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 03:56	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/09/14 03:56	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 03:56	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/09/14 03:56	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 03:56	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 03:56	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/09/14 03:56	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/09/14 03:56	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/09/14 03:56	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		10/09/14 03:56	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 03:56	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 03:56	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/09/14 03:56	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 03:56	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/09/14 03:56	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/09/14 03:56	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 03:56	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 03:56	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 03:56	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/09/14 03:56	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		10/09/14 03:56	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 03:56	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 03:56	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 03:56	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/09/14 03:56	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 03:56	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 03:56	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/09/14 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		10/09/14 03:56	1
Dibromofluoromethane	105		75 - 120		10/09/14 03:56	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/09/14 03:56	1
Toluene-d8 (Surr)	103		75 - 122		10/09/14 03:56	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	40	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(0-5)-092914**

**Lab Sample ID: 500-85075-11**

**Date Collected: 09/29/14 09:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Anthracene	<37		37	6.3	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Carbazole	<190		190	97	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Dibenzofuran	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Hexachlorocyclopentadiene	<750 *		750	220	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(0-5)-092914**

**Lab Sample ID: 500-85075-11**

**Date Collected: 09/29/14 09:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.0**

**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	<37		37	9.7	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Phenol	<190		190	83	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/09/14 06:56	10/16/14 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137				10/09/14 06:56	10/16/14 19:58	1
2-Fluorobiphenyl	41		25 - 119				10/09/14 06:56	10/16/14 19:58	1
2-Fluorophenol	52		25 - 110				10/09/14 06:56	10/16/14 19:58	1
Nitrobenzene-d5	39		25 - 115				10/09/14 06:56	10/16/14 19:58	1
Phenol-d5	39		31 - 110				10/09/14 06:56	10/16/14 19:58	1
Terphenyl-d14	74		36 - 134				10/09/14 06:56	10/16/14 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		10/13/14 08:45	10/14/14 13:40	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 13:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 13:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 13:40	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:40	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:40	1
<b>Copper</b>	<b>0.072</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:40	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 13:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 13:40	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:40	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:40	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 13:40	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:40	1
<b>Zinc</b>	<b>0.055</b>	<b>J</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.039</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 10:45	10/11/14 14:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 14:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Chromium</b>	<b>0.10</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:28	1
<b>Nickel</b>	<b>0.089</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:28	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 14:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(0-5)-092914**

**Lab Sample ID: 500-85075-11**

Date Collected: 09/29/14 09:55

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 14:28	1
<b>Zinc</b>	<b>0.29</b>		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 14:28	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Arsenic</b>	<b>8.0</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Barium</b>	<b>53</b>		0.58	0.062	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Beryllium</b>	<b>0.46</b>		0.23	0.047	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Cadmium</b>	<b>0.41</b>		0.12	0.015	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Calcium</b>	<b>31000</b>		12	3.2	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Chromium</b>	<b>13</b>	<b>B</b>	0.58	0.068	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Cobalt</b>	<b>7.8</b>		0.29	0.058	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Copper</b>	<b>19</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Iron</b>	<b>19000</b>		12	4.8	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Lead</b>	<b>18</b>		0.29	0.087	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Magnesium</b>	<b>19000</b>		5.8	1.2	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Manganese</b>	<b>450</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Nickel</b>	<b>18</b>		0.58	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Potassium</b>	<b>1500</b>		29	1.8	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Sodium</b>	<b>540</b>		58	7.8	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Thallium</b>	<b>1.1</b>		0.58	0.25	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Vanadium</b>	<b>18</b>		0.29	0.043	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:28	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>33</b>		18	7.1	ug/Kg	☼	10/07/14 14:00	10/08/14 13:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.88</b>		0.200	0.200	SU			10/09/14 11:08	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(5-10)-092914**

**Lab Sample ID: 500-85075-12**

**Date Collected: 09/29/14 10:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 80.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		10/09/14 04:20	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		10/09/14 04:20	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 04:20	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/09/14 04:20	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/09/14 04:20	1
Carbon disulfide	<6.2		6.2	0.93	ug/Kg	☼		10/09/14 04:20	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 04:20	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/09/14 04:20	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		10/09/14 04:20	1
Chloroform	<6.2		6.2	0.72	ug/Kg	☼		10/09/14 04:20	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/09/14 04:20	1
cis-1,2-Dichloroethene	<6.2		6.2	0.88	ug/Kg	☼		10/09/14 04:20	1
cis-1,3-Dichloropropene	<6.2		6.2	0.82	ug/Kg	☼		10/09/14 04:20	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 04:20	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		10/09/14 04:20	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/09/14 04:20	1
1,1,1-Dichloroethane	<6.2		6.2	1.0	ug/Kg	☼		10/09/14 04:20	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		10/09/14 04:20	1
1,3-Dichloropropene, Total	<6.2		6.2	0.82	ug/Kg	☼		10/09/14 04:20	1
Ethylbenzene	<6.2		6.2	1.3	ug/Kg	☼		10/09/14 04:20	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/09/14 04:20	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		10/09/14 04:20	1
Methyl Ethyl Ketone	<6.2		6.2	2.3	ug/Kg	☼		10/09/14 04:20	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/09/14 04:20	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/09/14 04:20	1
Styrene	<6.2		6.2	0.82	ug/Kg	☼		10/09/14 04:20	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.3	ug/Kg	☼		10/09/14 04:20	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		10/09/14 04:20	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		10/09/14 04:20	1
trans-1,2-Dichloroethene	<6.2		6.2	0.86	ug/Kg	☼		10/09/14 04:20	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/09/14 04:20	1
1,1,1-Trichloroethane	<6.2		6.2	0.93	ug/Kg	☼		10/09/14 04:20	1
1,1,2-Trichloroethane	<6.2		6.2	0.85	ug/Kg	☼		10/09/14 04:20	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/09/14 04:20	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/09/14 04:20	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/09/14 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/09/14 04:20	1
Dibromofluoromethane	109		75 - 120		10/09/14 04:20	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		10/09/14 04:20	1
Toluene-d8 (Surr)	97		75 - 122		10/09/14 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(5-10)-092914**

**Lab Sample ID: 500-85075-12**

**Date Collected: 09/29/14 10:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Anthracene	<40		40	6.7	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Benzo[b]fluoranthene	<40		40	8.6	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Carbazole	<200		200	100	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Chrysene	<40		40	11	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Dibenzofuran	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Fluoranthene	<40		40	7.4	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Fluorene	<40		40	5.6	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Hexachlorocyclopentadiene	<810 *		810	230	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(5-10)-092914**

**Lab Sample ID: 500-85075-12**

**Date Collected: 09/29/14 10:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 80.4**

**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	<40		40	10	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Naphthalene	<40		40	6.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Phenol	<200		200	89	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Pyrene	<40		40	8.0	ug/Kg	☼	10/09/14 06:56	10/16/14 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		35 - 137				10/09/14 06:56	10/16/14 20:18	1
2-Fluorobiphenyl	45		25 - 119				10/09/14 06:56	10/16/14 20:18	1
2-Fluorophenol	58		25 - 110				10/09/14 06:56	10/16/14 20:18	1
Nitrobenzene-d5	45		25 - 115				10/09/14 06:56	10/16/14 20:18	1
Phenol-d5	44		31 - 110				10/09/14 06:56	10/16/14 20:18	1
Terphenyl-d14	87		36 - 134				10/09/14 06:56	10/16/14 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 13:45	1
<b>Barium</b>	<b>0.67</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 13:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 13:45	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 13:45	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:45	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:45	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:45	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 13:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 13:45	1
<b>Manganese</b>	<b>4.7</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:45	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:45	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 13:45	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:45	1
<b>Zinc</b>	<b>0.065</b>	<b>J</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 10:45	10/11/14 14:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 14:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Chromium</b>	<b>0.041</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Iron</b>	<b>35</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Lead</b>	<b>0.026</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Manganese</b>	<b>0.48</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:34	1
<b>Nickel</b>	<b>0.042</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:34	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 14:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(5-10)-092914**

**Lab Sample ID: 500-85075-12**

Date Collected: 09/29/14 10:00

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 14:34	1
Zinc	0.14		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 14:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.84	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Arsenic	9.8		1.0	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Barium	75		1.0	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Beryllium	0.56		0.42	0.083	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Cadmium	0.31		0.21	0.027	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Calcium	35000		21	5.7	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Chromium	16	B	1.0	0.12	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Cobalt	10		0.52	0.10	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Copper	23		1.0	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Iron	23000		21	8.6	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Lead	18		0.52	0.16	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Magnesium	18000		10	2.1	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Manganese	620		1.0	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Nickel	24		1.0	0.21	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Potassium	2100		52	3.1	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Selenium	<1.0		1.0	0.37	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Silver	0.070	J	0.52	0.038	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Sodium	620		100	14	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Thallium	0.94	J	1.0	0.44	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Vanadium	21		0.52	0.077	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1
Zinc	58	B	2.1	0.42	mg/Kg	☼	10/08/14 10:30	10/10/14 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:30	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	31		19	7.3	ug/Kg	☼	10/07/14 14:00	10/08/14 13:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.31		0.200	0.200	SU			10/09/14 11:15	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914**

**Lab Sample ID: 500-85075-13**

**Date Collected: 09/29/14 10:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13		5.9	2.5	ug/Kg	☼		10/09/14 04:44	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 04:44	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 04:44	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/09/14 04:44	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/09/14 04:44	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 04:44	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 04:44	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/09/14 04:44	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 04:44	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/09/14 04:44	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 04:44	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/09/14 04:44	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 04:44	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 04:44	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/09/14 04:44	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/09/14 04:44	1
1,1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/09/14 04:44	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		10/09/14 04:44	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 04:44	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 04:44	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/09/14 04:44	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 04:44	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/09/14 04:44	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/09/14 04:44	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 04:44	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 04:44	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 04:44	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/09/14 04:44	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		10/09/14 04:44	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 04:44	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 04:44	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 04:44	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/09/14 04:44	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 04:44	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 04:44	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/09/14 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/09/14 04:44	1
Dibromofluoromethane	105		75 - 120		10/09/14 04:44	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		10/09/14 04:44	1
Toluene-d8 (Surr)	101		75 - 122		10/09/14 04:44	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	40	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914**

**Lab Sample ID: 500-85075-13**

**Date Collected: 09/29/14 10:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Carbazole	<190		190	97	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Dibenzofuran	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Hexachlorocyclopentadiene	<750 *		750	220	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914**

**Lab Sample ID: 500-85075-13**

**Date Collected: 09/29/14 10:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.8**

**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	<37		37	9.7	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Phenol	<190		190	83	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/09/14 06:56	10/16/14 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		35 - 137				10/09/14 06:56	10/16/14 20:37	1
2-Fluorobiphenyl	47		25 - 119				10/09/14 06:56	10/16/14 20:37	1
2-Fluorophenol	55		25 - 110				10/09/14 06:56	10/16/14 20:37	1
Nitrobenzene-d5	47		25 - 115				10/09/14 06:56	10/16/14 20:37	1
Phenol-d5	40		31 - 110				10/09/14 06:56	10/16/14 20:37	1
Terphenyl-d14	83		36 - 134				10/09/14 06:56	10/16/14 20:37	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		10/13/14 08:45	10/14/14 13:50	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 13:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 13:50	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:50	1
<b>Cobalt</b>	<b>0.016 J</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:50	1
<b>Copper</b>	<b>0.040</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:50	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 13:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 13:50	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:50	1
<b>Nickel</b>	<b>0.033</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:50	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 13:50	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:50	1
<b>Zinc</b>	<b>0.036 J</b>		0.10	0.020	mg/L		10/13/14 08:45	10/14/14 13:50	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		10/10/14 10:45	10/11/14 14:40	1
<b>Barium</b>	<b>0.12 J</b>		0.50	0.050	mg/L		10/10/14 10:45	10/11/14 14:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 14:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 14:40	1
<b>Chromium</b>	<b>0.021 J</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:40	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:40	1
<b>Copper</b>	<b>0.026</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:40	1
<b>Iron</b>	<b>8.7</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 14:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 14:40	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:40	1
<b>Nickel</b>	<b>0.016 J</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:40	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 14:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914**

**Lab Sample ID: 500-85075-13**

Date Collected: 09/29/14 10:05

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 14:40	1
Zinc	0.064	J	0.10	0.020	mg/L		10/10/14 10:45	10/11/14 14:40	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Arsenic	7.3		0.54	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Barium	35		0.54	0.058	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Beryllium	0.49		0.22	0.043	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Cadmium	0.40		0.11	0.014	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Calcium	49000		11	2.9	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Chromium	15	B	0.54	0.063	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Cobalt	10		0.27	0.054	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Copper	19		0.54	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Iron	19000		11	4.5	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Lead	13		0.27	0.081	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Magnesium	25000		5.4	1.1	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Manganese	370		0.54	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Nickel	25		0.54	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Potassium	2800		27	1.6	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Silver	0.043	J	0.27	0.020	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Sodium	210		54	7.3	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Thallium	1.3		0.54	0.23	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Vanadium	15		0.27	0.040	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	10/08/14 10:30	10/10/14 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:32	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	21		18	7.2	ug/Kg	☼	10/07/14 14:00	10/08/14 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			10/09/14 11:22	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914D**

**Lab Sample ID: 500-85075-14**

**Date Collected: 09/29/14 10:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	11		6.0	2.6	ug/Kg	☼		10/09/14 05:08	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/09/14 05:08	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/09/14 05:08	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/09/14 05:08	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/09/14 05:08	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		10/09/14 05:08	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/09/14 05:08	1
Chlorobenzene	<6.0		6.0	0.60	ug/Kg	☼		10/09/14 05:08	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 05:08	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/09/14 05:08	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/09/14 05:08	1
cis-1,2-Dichloroethene	<6.0		6.0	0.84	ug/Kg	☼		10/09/14 05:08	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	☼		10/09/14 05:08	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/09/14 05:08	1
1,1-Dichloroethane	<6.0		6.0	0.94	ug/Kg	☼		10/09/14 05:08	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		10/09/14 05:08	1
1,1-Dichloroethene	<6.0		6.0	0.96	ug/Kg	☼		10/09/14 05:08	1
1,2-Dichloropropane	<6.0		6.0	0.90	ug/Kg	☼		10/09/14 05:08	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	☼		10/09/14 05:08	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/09/14 05:08	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/09/14 05:08	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 05:08	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/09/14 05:08	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/09/14 05:08	1
Methyl tert-butyl ether	<6.0		6.0	0.98	ug/Kg	☼		10/09/14 05:08	1
Styrene	<6.0		6.0	0.78	ug/Kg	☼		10/09/14 05:08	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/09/14 05:08	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		10/09/14 05:08	1
Toluene	<6.0		6.0	0.83	ug/Kg	☼		10/09/14 05:08	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		10/09/14 05:08	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/09/14 05:08	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/09/14 05:08	1
1,1,2-Trichloroethane	<6.0		6.0	0.81	ug/Kg	☼		10/09/14 05:08	1
Trichloroethene	<6.0		6.0	0.98	ug/Kg	☼		10/09/14 05:08	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/09/14 05:08	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/09/14 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		10/09/14 05:08	1
Dibromofluoromethane	104		75 - 120		10/09/14 05:08	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		10/09/14 05:08	1
Toluene-d8 (Surr)	100		75 - 122		10/09/14 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914D**

**Lab Sample ID: 500-85075-14**

**Date Collected: 09/29/14 10:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2-Methylnaphthalene	<39		39	7.1	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2-Methylphenol	<200		200	62	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Anthracene	<39		39	6.5	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Benzo[g,h,i]perylene	<39		39	12	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Carbazole	<200		200	100	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Chrysene	<39		39	11	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Dibenzofuran	<200		200	45	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Hexachlorocyclopentadiene	<780 *		780	220	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Hexachloroethane	<200		200	59	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914D**

**Lab Sample ID: 500-85075-14**

**Date Collected: 09/29/14 10:05**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 83.9**

**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	<39		39	10	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Isophorone	<200		200	44	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Naphthalene	<39		39	6.0	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
N-Nitrosodi-n-propylamine	<200		200	47	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Phenanthrene	<39		39	5.4	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Phenol	<200		200	86	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Pyrene	<39		39	7.7	ug/Kg	☼	10/09/14 06:56	10/16/14 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		35 - 137				10/09/14 06:56	10/16/14 20:57	1
2-Fluorobiphenyl	43		25 - 119				10/09/14 06:56	10/16/14 20:57	1
2-Fluorophenol	54		25 - 110				10/09/14 06:56	10/16/14 20:57	1
Nitrobenzene-d5	43		25 - 115				10/09/14 06:56	10/16/14 20:57	1
Phenol-d5	41		31 - 110				10/09/14 06:56	10/16/14 20:57	1
Terphenyl-d14	75		36 - 134				10/09/14 06:56	10/16/14 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 13:55	1
<b>Barium</b>	<b>0.57</b>		0.50	0.050	mg/L		10/13/14 08:45	10/14/14 13:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 13:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 13:55	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:55	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:55	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:55	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 13:55	1
<b>Lead</b>	<b>0.010</b>		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 13:55	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:55	1
<b>Nickel</b>	<b>0.015 J</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:55	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 13:55	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 13:55	1
<b>Zinc</b>	<b>0.083 J</b>		0.10	0.020	mg/L		10/13/14 08:45	10/14/14 13:55	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		10/10/14 10:45	10/11/14 14:47	1
<b>Barium</b>	<b>0.19 J</b>		0.50	0.050	mg/L		10/10/14 10:45	10/11/14 14:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 14:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 14:47	1
<b>Chromium</b>	<b>0.043</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:47	1
<b>Cobalt</b>	<b>0.015 J</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:47	1
<b>Copper</b>	<b>0.039</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:47	1
<b>Iron</b>	<b>28</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 14:47	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 14:47	1
<b>Manganese</b>	<b>0.37</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:47	1
<b>Nickel</b>	<b>0.041</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 14:47	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 14:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-2(10-15)-092914D**

**Lab Sample ID: 500-85075-14**

Date Collected: 09/29/14 10:05

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 14:47	1
Zinc	0.10		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 14:47	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	☼	10/08/14 10:30	10/10/14 18:51	1
Arsenic	5.9		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Barium	41		0.56	0.060	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Beryllium	0.51		0.22	0.045	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Cadmium	0.38		0.11	0.014	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Calcium	52000		11	3.0	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Chromium	16	B	0.56	0.065	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Cobalt	9.0		0.28	0.056	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Copper	23		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Iron	18000		11	4.6	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Lead	10		0.28	0.083	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Magnesium	25000		5.6	1.2	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Manganese	350		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Nickel	24		0.56	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Potassium	2700		28	1.7	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Silver	0.036	J	0.28	0.020	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Sodium	240		56	7.5	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Thallium	1.1		0.56	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Vanadium	17		0.28	0.041	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1
Zinc	47	B	1.1	0.23	mg/Kg	☼	10/08/14 10:30	10/10/14 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:34	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	18		17	6.8	ug/Kg	☼	10/07/14 14:00	10/08/14 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			10/09/14 11:30	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-5(0-5)-092914**

**Lab Sample ID: 500-85075-20**

Date Collected: 09/29/14 11:30

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 85.1

## Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	*		10/09/14 07:33	1
Benzene	<5.9		5.9	0.81	ug/Kg	*		10/09/14 07:33	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	*		10/09/14 07:33	1
Bromoform	<5.9		5.9	1.4	ug/Kg	*		10/09/14 07:33	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	*		10/09/14 07:33	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	*		10/09/14 07:33	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	*		10/09/14 07:33	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	*		10/09/14 07:33	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	*		10/09/14 07:33	1
Chloroform	<5.9		5.9	0.68	ug/Kg	*		10/09/14 07:33	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	*		10/09/14 07:33	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	*		10/09/14 07:33	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	*		10/09/14 07:33	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	*		10/09/14 07:33	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	*		10/09/14 07:33	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	*		10/09/14 07:33	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	*		10/09/14 07:33	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	*		10/09/14 07:33	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	*		10/09/14 07:33	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	*		10/09/14 07:33	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	*		10/09/14 07:33	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	*		10/09/14 07:33	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	*		10/09/14 07:33	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	*		10/09/14 07:33	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	*		10/09/14 07:33	1
Styrene	<5.9		5.9	0.77	ug/Kg	*		10/09/14 07:33	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	*		10/09/14 07:33	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	*		10/09/14 07:33	1
Toluene	<5.9		5.9	0.82	ug/Kg	*		10/09/14 07:33	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	*		10/09/14 07:33	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	*		10/09/14 07:33	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	*		10/09/14 07:33	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	*		10/09/14 07:33	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	*		10/09/14 07:33	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	*		10/09/14 07:33	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		10/09/14 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/09/14 07:33	1
Dibromofluoromethane	103		75 - 120		10/09/14 07:33	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134		10/09/14 07:33	1
Toluene-d8 (Surr)	101		75 - 122		10/09/14 07:33	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	40	ug/Kg	*	10/09/14 06:56	10/16/14 12:08	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	*	10/09/14 06:56	10/16/14 12:08	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	10/09/14 06:56	10/16/14 12:08	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	*	10/09/14 06:56	10/16/14 12:08	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	*	10/09/14 06:56	10/16/14 12:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-5(0-5)-092914**

**Lab Sample ID: 500-85075-20**

**Date Collected: 09/29/14 11:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2-Methylphenol	<190		190	59	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Benzo[a]pyrene	<37		37	7.1	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Carbazole	<190		190	95	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Dibenzofuran	<190		190	43	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Fluoranthene	<37		37	6.8	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Fluorene	<37		37	5.2	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Hexachlorocyclopentadiene	<740 *		740	210	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Hexachloroethane	<190		190	56	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-5(0-5)-092914**

**Lab Sample ID: 500-85075-20**

**Date Collected: 09/29/14 11:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.1**

**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	<37		37	9.6	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Isophorone	<190		190	41	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Naphthalene	<37		37	5.7	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Phenanthrene	<37		37	5.1	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Phenol	<190		190	82	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Pyrene	<37		37	7.3	ug/Kg	☼	10/09/14 06:56	10/16/14 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		35 - 137				10/09/14 06:56	10/16/14 12:08	1
2-Fluorobiphenyl	39		25 - 119				10/09/14 06:56	10/16/14 12:08	1
2-Fluorophenol	35		25 - 110				10/09/14 06:56	10/16/14 12:08	1
Nitrobenzene-d5	25		25 - 115				10/09/14 06:56	10/16/14 12:08	1
Phenol-d5	31		31 - 110				10/09/14 06:56	10/16/14 12:08	1
Terphenyl-d14	51		36 - 134				10/09/14 06:56	10/16/14 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 14:32	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 14:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 14:32	1
<b>Cadmium</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 14:32	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 14:32	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 14:32	1
<b>Copper</b>	<b>0.059</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 14:32	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 14:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 14:32	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 14:32	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 14:32	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 14:32	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 14:32	1
<b>Zinc</b>	<b>0.058</b>	<b>J</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.019</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 10:45	10/11/14 15:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 10:45	10/11/14 15:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Chromium</b>	<b>0.055</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Copper</b>	<b>0.073</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Iron</b>	<b>50</b>		0.20	0.20	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Lead</b>	<b>0.024</b>		0.0075	0.0075	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 15:39	1
<b>Nickel</b>	<b>0.052</b>		0.025	0.010	mg/L		10/10/14 10:45	10/11/14 15:39	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 10:45	10/11/14 15:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

**Client Sample ID: VL-5(0-5)-092914**

**Lab Sample ID: 500-85075-20**

Date Collected: 09/29/14 11:30

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 10:45	10/11/14 15:39	1
<b>Zinc</b>	<b>0.17</b>		0.10	0.020	mg/L		10/10/14 10:45	10/11/14 15:39	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	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Arsenic</b>	<b>6.1</b>		0.57	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Barium</b>	<b>39</b>		0.57	0.062	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.046	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.015	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Calcium</b>	<b>45000</b>		11	3.1	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.57	0.067	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Cobalt</b>	<b>6.8</b>		0.29	0.057	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Copper</b>	<b>21</b>		0.57	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Iron</b>	<b>17000</b>		11	4.7	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Lead</b>	<b>9.7</b>		0.29	0.086	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Magnesium</b>	<b>23000</b>		5.7	1.2	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Manganese</b>	<b>280</b>		0.57	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Nickel</b>	<b>19</b>		0.57	0.11	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Potassium</b>	<b>2400</b>		29	1.7	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Sodium</b>	<b>700</b>		57	7.7	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Thallium</b>	<b>0.80</b>		0.57	0.24	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Vanadium</b>	<b>19</b>		0.29	0.043	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1
<b>Zinc</b>	<b>44</b>	<b>B</b>	1.1	0.23	mg/Kg	☼	10/08/14 10:30	10/10/14 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:50	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>20</b>		18	7.1	ug/Kg	☼	10/07/14 14:00	10/08/14 14:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.75</b>		0.200	0.200	SU			10/09/14 12:13	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery 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.
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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
L	A negative instrument reading had an absolute value greater than the reporting limit

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85075-1

## 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



Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: 300 plaza circle  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85075  
Chain of Custody Number:  
Page 1 of 5  
Temperature °C of Cooler: (2.7) (3.1)

Client		Client Project #		Preservative		7		7		7		7		7		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Parameter		VOCs		SVOCs		Total Metals		TCLP/SLP Metals		PH		
Project Location/State		Lab PM		# of Containers		Matrix										
Lab ID	MS/MSD	Sample ID	Date	Time												
1		VL-10(0-5) - 092914	9-29-14	8:30	2	SO	X	X	X	X	X					
2		VL-10(5-10) - 092914		8:35												
3		VL-10(5-10) - 092914D		8:35												
4		VL-9(0-5) - 092914		8:50												
5		VL-9(5-10) - 092914		8:55												
6		VL-8(0-5) - 092914		9:20												
7		VL-8(5-10) - 092914		9:25												
8		VL-1(0-5) - 092914		9:40												
9		VL-1(5-10) - 092914		9:45												
10		VL-1(10-15) - 092914	9-29-14	9:50	2	SO	X	X	X	X	X					

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>David Jena</u>	Company: <u>Weston</u>	Date: <u>9-29-14</u>	Time: <u>16:00</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>9/29/14</u>	Time: <u>16:00</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>9/29/14</u>	Time: <u>16:55</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>9/30/14</u>	Time: <u>06:30</u>
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

Lab Courier: TA  
Shipped:  
Hand Delivered:

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

Client Comments:

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  
Address: 300 Plaza Circle  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85075

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

Page 2 of 5

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Comments				
Weston Solutions				7	7	7	7	7	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Parameter		Parameter						
IDOT 090 orland park		50010769				Total Metals						
Project Location/State		Lab PM		Matrix		Trace metals						
Orland Park, IL		Wright				pH						
Sampler		Sampling										
Sng		Date Time		# of Containers Matrix								
Lab ID	MS/MSD	Sample ID										
11		VL-2(0-5)-092914	9:29:14	9:55	2	50	X	X	X	X	X	
12		VL-2(5-10)-092914		10:00								
13		VL-2(10-15)-092914		10:05								
14		VL-2(10-15)-092914D		10:05								
15		VL-3(0-5)-092914		10:45								
16		VL-3(5-10)-092914		10:50								
17		VL-3(10-15)-092914		10:55								
18		VL-4(0-5)-092914		11:10								
19		VL-4(5-10)-092914		11:15								
20		VL-5(0-5)-092914	9:29:14	11:30	2	50	X	X	X	X	X	

Turnaround Time Required (Business Days)

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

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>David Demas</u>	Company Weston	Date 9-29-14	Time 16:00	Received By <u>[Signature]</u>	Company TA	Date 9/29/14	Time 16:00
Relinquished By <u>[Signature]</u>	Company TA	Date 9/29/14	Time 16:45	Received By <u>[Signature]</u>	Company TA	Date 9/30/14	Time 06:30
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier TA

Shipped \_\_\_\_\_

Hand Delivered \_\_\_\_\_

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

Client Comments

Lab Comments:

# 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: 500-85076-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/16/2014 1:34:41 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.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-5(5-10)-092914**

**Lab Sample ID: 500-85076-1**

**Date Collected: 09/29/14 11:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		10/09/14 18:42	1
Benzene	<5.8		5.8	0.79	ug/Kg	*		10/09/14 18:42	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	*		10/09/14 18:42	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		10/09/14 18:42	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	*		10/09/14 18:42	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	*		10/09/14 18:42	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	*		10/09/14 18:42	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	*		10/09/14 18:42	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		10/09/14 18:42	1
Chloroform	<5.8		5.8	0.66	ug/Kg	*		10/09/14 18:42	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		10/09/14 18:42	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	*		10/09/14 18:42	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	*		10/09/14 18:42	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		10/09/14 18:42	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	*		10/09/14 18:42	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	*		10/09/14 18:42	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	*		10/09/14 18:42	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	*		10/09/14 18:42	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	*		10/09/14 18:42	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		10/09/14 18:42	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		10/09/14 18:42	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		10/09/14 18:42	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		10/09/14 18:42	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		10/09/14 18:42	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	*		10/09/14 18:42	1
Styrene	<5.8		5.8	0.76	ug/Kg	*		10/09/14 18:42	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		10/09/14 18:42	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	*		10/09/14 18:42	1
Toluene	<5.8		5.8	0.81	ug/Kg	*		10/09/14 18:42	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	*		10/09/14 18:42	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	*		10/09/14 18:42	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	*		10/09/14 18:42	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	*		10/09/14 18:42	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	*		10/09/14 18:42	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		10/09/14 18:42	1
Xylenes, Total	<12		12	0.52	ug/Kg	*		10/09/14 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		10/09/14 18:42	1
Dibromofluoromethane	102		75 - 120		10/09/14 18:42	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		10/09/14 18:42	1
Toluene-d8 (Surr)	98		75 - 122		10/09/14 18:42	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	40	ug/Kg	*	10/09/14 07:00	10/15/14 23:31	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	10/09/14 07:00	10/15/14 23:31	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	10/09/14 07:00	10/15/14 23:31	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	*	10/09/14 07:00	10/15/14 23:31	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	*	10/09/14 07:00	10/15/14 23:31	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-5(5-10)-092914**

**Lab Sample ID: 500-85076-1**

**Date Collected: 09/29/14 11:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
4-Chlorophenyl phenyl ether	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Carbazole	<190 *		190	97	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Dibenzofuran	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-5(5-10)-092914**

**Lab Sample ID: 500-85076-1**

**Date Collected: 09/29/14 11:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.7**

**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	<37		37	9.7	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Phenol	<190		190	83	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/09/14 07:00	10/15/14 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	44		35 - 137				10/09/14 07:00	10/15/14 23:31	1
2-Fluorobiphenyl	52		25 - 119				10/09/14 07:00	10/15/14 23:31	1
2-Fluorophenol	54		25 - 110				10/09/14 07:00	10/15/14 23:31	1
Nitrobenzene-d5	52		25 - 115				10/09/14 07:00	10/15/14 23:31	1
Phenol-d5	49		31 - 110				10/09/14 07:00	10/15/14 23:31	1
Terphenyl-d14	82		36 - 134				10/09/14 07:00	10/15/14 23:31	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		10/13/14 08:45	10/14/14 18:59	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 18:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 18:59	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 18:59	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 18:59	1
<b>Copper</b>	<b>0.060</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 18:59	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 18:59	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 18:59	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 18:59	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 18:59	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 18:59	1
<b>Zinc</b>	<b>0.059</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 18:59	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		10/10/14 09:45	10/11/14 16:02	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 16:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 16:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 16:02	1
<b>Chromium</b>	<b>0.026</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:02	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:02	1
<b>Copper</b>	<b>0.037</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:02	1
<b>Iron</b>	<b>22</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 16:02	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 16:02	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:02	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:02	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 16:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-5(5-10)-092914**

**Lab Sample ID: 500-85076-1**

Date Collected: 09/29/14 11:35

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 16:02	1
Zinc	0.11		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 16:02	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	☼	10/09/14 10:30	10/10/14 20:06	1
Arsenic	12		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Barium	25		0.54	0.058	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Beryllium	0.37		0.22	0.043	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Cadmium	0.50		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Calcium	57000		110	29	mg/Kg	☼	10/09/14 10:30	10/11/14 16:05	10
Chromium	11	B	0.54	0.063	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Cobalt	12		0.27	0.054	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Copper	26		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Iron	18000		11	4.4	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Lead	12		0.27	0.080	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Magnesium	28000		5.4	1.1	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Manganese	490		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Nickel	25		0.54	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Potassium	1700	B	27	1.6	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Selenium	<0.54	L	0.54	0.19	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Silver	0.043	J B	0.27	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Sodium	420		54	7.2	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Thallium	1.1		0.54	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Vanadium	14		0.27	0.040	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1
Zinc	73	B	1.1	0.22	mg/Kg	☼	10/09/14 10:30	10/10/14 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 11:58	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	19		18	7.2	ug/Kg	☼	10/08/14 11:00	10/09/14 08:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.200	0.200	SU			10/09/14 12:27	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(0-5)-092914**

**Lab Sample ID: 500-85076-2**

**Date Collected: 09/29/14 11:50**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	*		10/09/14 19:06	1
Benzene	<6.2		6.2	0.84	ug/Kg	*		10/09/14 19:06	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	*		10/09/14 19:06	1
Bromoform	<6.2		6.2	1.4	ug/Kg	*		10/09/14 19:06	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	*		10/09/14 19:06	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	*		10/09/14 19:06	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	*		10/09/14 19:06	1
Chlorobenzene	<6.2		6.2	0.62	ug/Kg	*		10/09/14 19:06	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	*		10/09/14 19:06	1
Chloroform	<6.2		6.2	0.71	ug/Kg	*		10/09/14 19:06	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	*		10/09/14 19:06	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	*		10/09/14 19:06	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	*		10/09/14 19:06	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	*		10/09/14 19:06	1
1,1-Dichloroethane	<6.2		6.2	0.97	ug/Kg	*		10/09/14 19:06	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	*		10/09/14 19:06	1
1,1-Dichloroethene	<6.2		6.2	0.99	ug/Kg	*		10/09/14 19:06	1
1,2-Dichloropropane	<6.2		6.2	0.93	ug/Kg	*		10/09/14 19:06	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	*		10/09/14 19:06	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	*		10/09/14 19:06	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	*		10/09/14 19:06	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	*		10/09/14 19:06	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	*		10/09/14 19:06	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	*		10/09/14 19:06	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	*		10/09/14 19:06	1
Styrene	<6.2		6.2	0.81	ug/Kg	*		10/09/14 19:06	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	*		10/09/14 19:06	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	*		10/09/14 19:06	1
Toluene	<6.2		6.2	0.86	ug/Kg	*		10/09/14 19:06	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	*		10/09/14 19:06	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	*		10/09/14 19:06	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	*		10/09/14 19:06	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	*		10/09/14 19:06	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	*		10/09/14 19:06	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	*		10/09/14 19:06	1
Xylenes, Total	<12		12	0.56	ug/Kg	*		10/09/14 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/09/14 19:06	1
Dibromofluoromethane	102		75 - 120		10/09/14 19:06	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		10/09/14 19:06	1
Toluene-d8 (Surr)	101		75 - 122		10/09/14 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	*	10/09/14 07:00	10/15/14 23:52	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	*	10/09/14 07:00	10/15/14 23:52	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	*	10/09/14 07:00	10/15/14 23:52	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	*	10/09/14 07:00	10/15/14 23:52	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	*	10/09/14 07:00	10/15/14 23:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(0-5)-092914**

**Lab Sample ID: 500-85076-2**

**Date Collected: 09/29/14 11:50**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	93	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2,4-Dimethylphenol	<410		410	150	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2-Methylphenol	<210		210	66	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
2-Nitrophenol	<410		410	96	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
4,6-Dinitro-2-methylphenol	<410		410	330	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
4-Chlorophenyl phenyl ether	<210 *		210	48	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Acenaphthene	<41		41	7.3	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Anthracene	<41		41	6.8	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Benzo[a]anthracene	<41		41	5.5	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Benzo[a]pyrene	<41		41	7.9	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Benzo[b]fluoranthene	<41		41	8.8	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Benzo[k]fluoranthene	<41 *		41	12	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Carbazole	<210 *		210	110	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Chrysene	<41		41	11	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Dibenz(a,h)anthracene	<41 *		41	7.9	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Dibenzofuran	<210 *		210	48	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Fluoranthene	<41		41	7.6	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Fluorene	<41		41	5.7	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Hexachloroethane	<210		210	62	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(0-5)-092914**

**Lab Sample ID: 500-85076-2**

**Date Collected: 09/29/14 11:50**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.2**

**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	<41		41	11	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Isophorone	<210		210	46	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Naphthalene	<41		41	6.3	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Nitrobenzene	<41		41	10	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Pentachlorophenol	<820		820	660	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Phenanthrene	<41		41	5.7	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Phenol	<210		210	91	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Pyrene	<41		41	8.1	ug/Kg	☼	10/09/14 07:00	10/15/14 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	43		35 - 137				10/09/14 07:00	10/15/14 23:52	1
2-Fluorobiphenyl	38		25 - 119				10/09/14 07:00	10/15/14 23:52	1
2-Fluorophenol	37		25 - 110				10/09/14 07:00	10/15/14 23:52	1
Nitrobenzene-d5	38		25 - 115				10/09/14 07:00	10/15/14 23:52	1
Phenol-d5	36		31 - 110				10/09/14 07:00	10/15/14 23:52	1
Terphenyl-d14	58		36 - 134				10/09/14 07:00	10/15/14 23:52	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		10/13/14 08:45	10/14/14 19:04	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 19:04	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:04	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:04	1
<b>Copper</b>	<b>0.069</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:04	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 19:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 19:04	1
<b>Manganese</b>	<b>0.033</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:04	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 19:04	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:04	1
<b>Zinc</b>	<b>0.072</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 19:04	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		10/10/14 09:45	10/11/14 16:08	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 16:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 16:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 16:08	1
Chromium	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:08	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:08	1
Copper	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:08	1
<b>Iron</b>	<b>2.9</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 16:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 16:08	1
<b>Manganese</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:08	1
Nickel	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:08	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 16:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(0-5)-092914**

**Lab Sample ID: 500-85076-2**

Date Collected: 09/29/14 11:50

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 16:08	1
<b>Zinc</b>	<b>0.037</b>	<b>J</b>	0.10	0.020	mg/L		10/10/14 09:45	10/11/14 16:08	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Arsenic</b>	<b>9.7</b>		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Barium</b>	<b>84</b>		0.60	0.064	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Beryllium</b>	<b>0.64</b>		0.24	0.048	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Cadmium</b>	<b>0.16</b>		0.12	0.015	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Calcium</b>	<b>3500</b>		12	3.2	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.60	0.069	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Cobalt</b>	<b>10</b>		0.30	0.060	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Copper</b>	<b>21</b>		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Iron</b>	<b>22000</b>		12	4.9	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Lead</b>	<b>18</b>		0.30	0.089	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Magnesium</b>	<b>4400</b>		6.0	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Manganese</b>	<b>600</b>		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Nickel</b>	<b>24</b>		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Potassium</b>	<b>1300</b>	<b>B</b>	30	1.8	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Sodium</b>	<b>610</b>		60	8.0	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Thallium</b>	<b>1.6</b>		0.60	0.25	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Vanadium</b>	<b>24</b>		0.30	0.044	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1
<b>Zinc</b>	<b>51</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:00	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>30</b>		20	8.0	ug/Kg	☼	10/08/14 11:00	10/09/14 08:06	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			10/09/14 12:34	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(5-10)-092914**

**Lab Sample ID: 500-85076-3**

**Date Collected: 09/29/14 11:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		10/09/14 19:30	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 19:30	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 19:30	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/09/14 19:30	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/09/14 19:30	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 19:30	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 19:30	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/09/14 19:30	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 19:30	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/09/14 19:30	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 19:30	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/09/14 19:30	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 19:30	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 19:30	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/09/14 19:30	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/09/14 19:30	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/09/14 19:30	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		10/09/14 19:30	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 19:30	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 19:30	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/09/14 19:30	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 19:30	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/09/14 19:30	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/09/14 19:30	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 19:30	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 19:30	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 19:30	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/09/14 19:30	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		10/09/14 19:30	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 19:30	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 19:30	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 19:30	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/09/14 19:30	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 19:30	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 19:30	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/09/14 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		10/09/14 19:30	1
Dibromofluoromethane	99		75 - 120		10/09/14 19:30	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		10/09/14 19:30	1
Toluene-d8 (Surr)	103		75 - 122		10/09/14 19:30	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	☼	10/09/14 07:00	10/16/14 00:12	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(5-10)-092914**

**Lab Sample ID: 500-85076-3**

Date Collected: 09/29/14 11:55

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
4-Chlorophenyl phenyl ether	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Anthracene	<37		37	6.3	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Carbazole	<190 *		190	97	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Dibenz(a,h)anthracene	<37 *		37	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Dibenzofuran	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(5-10)-092914**

**Lab Sample ID: 500-85076-3**

**Date Collected: 09/29/14 11:55**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.8**

**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	<37		37	9.8	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Phenanthrene	<37		37	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Phenol	<190		190	84	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Pyrene	<37		37	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				10/09/14 07:00	10/16/14 00:12	1
2-Fluorobiphenyl	36		25 - 119				10/09/14 07:00	10/16/14 00:12	1
2-Fluorophenol	34		25 - 110				10/09/14 07:00	10/16/14 00:12	1
Nitrobenzene-d5	37		25 - 115				10/09/14 07:00	10/16/14 00:12	1
Phenol-d5	31		31 - 110				10/09/14 07:00	10/16/14 00:12	1
Terphenyl-d14	63		36 - 134				10/09/14 07:00	10/16/14 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 19:24	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:24	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:24	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 19:24	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 19:24	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:24	1
<b>Zinc</b>	<b>0.027</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 19:24	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		10/10/14 09:45	10/11/14 16:14	1
<b>Barium</b>	<b>0.057</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 16:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 16:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 16:14	1
Chromium	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:14	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:14	1
Copper	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:14	1
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 16:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 16:14	1
<b>Manganese</b>	<b>0.031</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:14	1
Nickel	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:14	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 16:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-6(5-10)-092914**

**Lab Sample ID: 500-85076-3**

Date Collected: 09/29/14 11:55

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 16:14	1
<b>Zinc</b>	<b>0.036</b>	<b>J</b>	0.10	0.020	mg/L		10/10/14 09:45	10/11/14 16:14	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Arsenic</b>	<b>8.6</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Barium</b>	<b>26</b>		0.55	0.059	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Beryllium</b>	<b>0.40</b>		0.22	0.044	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Cadmium</b>	<b>0.39</b>		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Calcium</b>	<b>46000</b>		11	3.0	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Chromium</b>	<b>13</b>	<b>B</b>	0.55	0.064	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Cobalt</b>	<b>7.7</b>		0.28	0.055	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Copper</b>	<b>22</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Iron</b>	<b>17000</b>		11	4.5	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Lead</b>	<b>12</b>		0.28	0.082	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Magnesium</b>	<b>28000</b>		5.5	1.1	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Manganese</b>	<b>270</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Nickel</b>	<b>19</b>		0.55	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Potassium</b>	<b>1900</b>	<b>B</b>	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Sodium</b>	<b>440</b>		55	7.4	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Thallium</b>	<b>1.1</b>		0.55	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Vanadium</b>	<b>15</b>		0.28	0.041	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1
<b>Zinc</b>	<b>52</b>	<b>B</b>	1.1	0.22	mg/Kg	☼	10/09/14 10:30	10/10/14 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:02	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>21</b>		19	7.3	ug/Kg	☼	10/08/14 11:00	10/09/14 08:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.67</b>		0.200	0.200	SU			10/09/14 12:41	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(0-5)-092914**

**Lab Sample ID: 500-85076-4**

Date Collected: 09/29/14 12:10

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 85.3

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		10/09/14 22:05	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		10/09/14 22:05	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 22:05	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		10/09/14 22:05	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/09/14 22:05	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 22:05	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 22:05	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		10/09/14 22:05	1
Chloroethane	<5.9 *		5.9	1.6	ug/Kg	☼		10/09/14 22:05	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		10/09/14 22:05	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 22:05	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/09/14 22:05	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 22:05	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 22:05	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/09/14 22:05	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/09/14 22:05	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/09/14 22:05	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		10/09/14 22:05	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 22:05	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 22:05	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/09/14 22:05	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 22:05	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/09/14 22:05	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/09/14 22:05	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 22:05	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/09/14 22:05	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 22:05	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/09/14 22:05	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		10/09/14 22:05	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 22:05	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 22:05	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 22:05	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/09/14 22:05	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/09/14 22:05	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 22:05	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/09/14 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/09/14 22:05	1
Dibromofluoromethane	104		75 - 120		10/09/14 22:05	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		10/09/14 22:05	1
Toluene-d8 (Surr)	99		75 - 122		10/09/14 22:05	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	40	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(0-5)-092914**

**Lab Sample ID: 500-85076-4**

**Date Collected: 09/29/14 12:10**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
4-Chlorophenyl phenyl ether	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Carbazole	<190 *		190	97	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Chrysene	<37		37	10	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Dibenzofuran	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(0-5)-092914**

**Lab Sample ID: 500-85076-4**

**Date Collected: 09/29/14 12:10**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.3**

**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	<37		37	9.7	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Phenol	<190		190	83	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				10/09/14 07:00	10/16/14 00:33	1
2-Fluorobiphenyl	51		25 - 119				10/09/14 07:00	10/16/14 00:33	1
2-Fluorophenol	94		25 - 110				10/09/14 07:00	10/16/14 00:33	1
Nitrobenzene-d5	47		25 - 115				10/09/14 07:00	10/16/14 00:33	1
Phenol-d5	87		31 - 110				10/09/14 07:00	10/16/14 00:33	1
Terphenyl-d14	74		36 - 134				10/09/14 07:00	10/16/14 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 19:29	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 19:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 19:29	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:29	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:29	1
<b>Copper</b>	<b>0.035</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:29	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 19:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 19:29	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:29	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:29	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 19:29	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:29	1
<b>Zinc</b>	<b>0.038</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.016</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 16:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 16:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Chromium</b>	<b>0.032</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Copper</b>	<b>0.053</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Iron</b>	<b>34</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:36	1
<b>Nickel</b>	<b>0.041</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:36	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 16:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(0-5)-092914**

**Lab Sample ID: 500-85076-4**

Date Collected: 09/29/14 12:10

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 16:36	1
Zinc	0.14		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 16:36	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	☼	10/09/14 10:30	10/10/14 21:05	1
Arsenic	8.9		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Barium	29		0.57	0.061	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Beryllium	0.44		0.23	0.046	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Cadmium	0.54		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Calcium	76000		110	31	mg/Kg	☼	10/09/14 10:30	10/11/14 16:25	10
Chromium	12	B	0.57	0.066	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Cobalt	8.4		0.28	0.057	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Copper	23		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Iron	19000		11	4.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Lead	11		0.28	0.085	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Magnesium	35000		5.7	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Manganese	380		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Nickel	21		0.57	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Potassium	2200	B	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Sodium	500		57	7.6	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Thallium	1.2		0.57	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Vanadium	17		0.28	0.042	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:03	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	21		19	7.4	ug/Kg	☼	10/08/14 11:00	10/09/14 08:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.55		0.200	0.200	SU			10/09/14 12:48	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(5-10)-092914**

**Lab Sample ID: 500-85076-5**

**Date Collected: 09/29/14 12:15**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 85.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		10/09/14 23:17	1
Benzene	<5.8		5.8	0.80	ug/Kg	*		10/09/14 23:17	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	*		10/09/14 23:17	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		10/09/14 23:17	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	*		10/09/14 23:17	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	*		10/09/14 23:17	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	*		10/09/14 23:17	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	*		10/09/14 23:17	1
Chloroethane	<5.8 *		5.8	1.6	ug/Kg	*		10/09/14 23:17	1
Chloroform	<5.8		5.8	0.67	ug/Kg	*		10/09/14 23:17	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		10/09/14 23:17	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	*		10/09/14 23:17	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	*		10/09/14 23:17	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		10/09/14 23:17	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	*		10/09/14 23:17	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	*		10/09/14 23:17	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	*		10/09/14 23:17	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	*		10/09/14 23:17	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	*		10/09/14 23:17	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		10/09/14 23:17	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		10/09/14 23:17	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		10/09/14 23:17	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		10/09/14 23:17	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		10/09/14 23:17	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	*		10/09/14 23:17	1
Styrene	<5.8		5.8	0.77	ug/Kg	*		10/09/14 23:17	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		10/09/14 23:17	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	*		10/09/14 23:17	1
Toluene	<5.8		5.8	0.82	ug/Kg	*		10/09/14 23:17	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	*		10/09/14 23:17	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	*		10/09/14 23:17	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	*		10/09/14 23:17	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	*		10/09/14 23:17	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	*		10/09/14 23:17	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		10/09/14 23:17	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		10/09/14 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		10/09/14 23:17	1
Dibromofluoromethane	102		75 - 120		10/09/14 23:17	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		10/09/14 23:17	1
Toluene-d8 (Surr)	102		75 - 122		10/09/14 23:17	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	*	10/09/14 07:00	10/16/14 00:54	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	*	10/09/14 07:00	10/16/14 00:54	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	*	10/09/14 07:00	10/16/14 00:54	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	*	10/09/14 07:00	10/16/14 00:54	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	*	10/09/14 07:00	10/16/14 00:54	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(5-10)-092914**

**Lab Sample ID: 500-85076-5**

**Date Collected: 09/29/14 12:15**

**Matrix: Solid**

**Date Received: 09/30/14 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	88	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
2-Nitrophenol	<380		380	92	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
4-Chlorophenyl phenyl ether	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Acenaphthene	<38		38	7.0	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Anthracene	<38		38	6.5	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Benzo[b]fluoranthene	<38		38	8.4	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Carbazole	<190 *		190	100	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Chrysene	<38		38	11	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Dibenz(a,h)anthracene	<38 *		38	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Dibenzofuran	<190 *		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(5-10)-092914**

**Lab Sample ID: 500-85076-5**

**Date Collected: 09/29/14 12:15**

**Matrix: Solid**

**Date Received: 09/30/14 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	10	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Isophorone	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Naphthalene	<38		38	6.0	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Nitrobenzene	<38		38	9.7	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Phenol	<190		190	86	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1
Pyrene	<38		38	7.7	ug/Kg	☼	10/09/14 07:00	10/16/14 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137	10/09/14 07:00	10/16/14 00:54	1
2-Fluorobiphenyl	44		25 - 119	10/09/14 07:00	10/16/14 00:54	1
2-Fluorophenol	41		25 - 110	10/09/14 07:00	10/16/14 00:54	1
Nitrobenzene-d5	40		25 - 115	10/09/14 07:00	10/16/14 00:54	1
Phenol-d5	39		31 - 110	10/09/14 07:00	10/16/14 00:54	1
Terphenyl-d14	76		36 - 134	10/09/14 07:00	10/16/14 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 19:41	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 19:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 19:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 19:41	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:41	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:41	1
<b>Copper</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:41	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 19:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 19:41	1
<b>Manganese</b>	<b>0.088</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:41	1
Nickel	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:41	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 19:41	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 19:41	1
<b>Zinc</b>	<b>0.040</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.030</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 16:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 16:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Chromium</b>	<b>0.056</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Copper</b>	<b>0.076</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Iron</b>	<b>67</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Lead</b>	<b>0.026</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Manganese</b>	<b>0.22</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:42	1
<b>Nickel</b>	<b>0.063</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 16:42	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 16:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: VL-7(5-10)-092914**

**Lab Sample ID: 500-85076-5**

Date Collected: 09/29/14 12:15

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 16:42	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 16:42	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	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Arsenic</b>	<b>5.3</b>		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Barium</b>	<b>47</b>		0.56	0.060	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Beryllium</b>	<b>0.42</b>		0.22	0.045	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Cadmium</b>	<b>0.31</b>		0.11	0.014	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Calcium</b>	<b>41000</b>		11	3.0	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Chromium</b>	<b>12</b>	<b>B</b>	0.56	0.065	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Cobalt</b>	<b>5.1</b>		0.28	0.056	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Copper</b>	<b>15</b>		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Iron</b>	<b>14000</b>		11	4.6	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Lead</b>	<b>8.0</b>		0.28	0.083	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Magnesium</b>	<b>23000</b>		5.6	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Manganese</b>	<b>270</b>		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Nickel</b>	<b>14</b>		0.56	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Potassium</b>	<b>1500</b>	<b>B</b>	28	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Sodium</b>	<b>450</b>		56	7.5	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Thallium</b>	<b>0.75</b>		0.56	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Vanadium</b>	<b>16</b>		0.28	0.041	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1
<b>Zinc</b>	<b>43</b>	<b>B</b>	1.1	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:05	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>24</b>		18	7.1	ug/Kg	☼	10/08/14 11:00	10/09/14 08:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.65</b>		0.200	0.200	SU			10/09/14 12:55	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.
F1	MS and/or MSD Recovery exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
L	A negative instrument reading had an absolute value greater than the reporting limit
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.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

## 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 ENVIRONMENTAL

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



500-85076 COC

Report To (optional) S. Babusukumar Bill To (optional) Same  
 Contact: S. Babusukumar Contact: Same  
 Company: Weston Company: \_\_\_\_\_  
 Address: 300 Plaza Circle #202 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-864-7250 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-85076

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

Page 3 of 5

Temperature °C of Cooler: (2.7) (3.1)

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
<u>Weston Solutions</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>				
Project Name <u>IDOT 090 orland park</u>		Lab Project # <u>50010169</u>										
Project Location/State <u>Orland Park, IL</u>		Lab PM <u>Wright</u>										
Sampler <u>Sing</u>												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	Trace/Spec Metals	pH	Comments
1		VL-5(5-10)-092914	9/29/14	11:35	2	SO	X	X	X	X	X	
2		VL-6(0-5)-092914		11:50								
3		VL-6(5-10)-092914		11:55								
4		VL-7(0-5)-092914		12:10								
5		VL-7(5-10)-092914		12:15								
6		RT1-5(0-5)-092914		12:40								
7		RT1-5(5-10)-092914		12:45								
8		RT1-4(0-5)-092914		13:00								
9		RT1-4(5-10)-092914		13:05								
10		RT1-3(0-5)-092914	9/29/14	13:30	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

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

Requested Due Date \_\_\_\_\_

Sample Disposal

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

Relinquished By <u>David Sena</u>	Company <u>Weston</u>	Date <u>9/29/14</u>	Time <u>16:00</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>16:00</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>16:45</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>06:30</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

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: Si Babusukumar  
 Company: Weston  
 Address: 300 Plaza Circle #202  
Mundelein, IL 60060  
 Phone: 224-864-7520  
 Fax:  
 E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85076  
 Chain of Custody Number:  
 Page 4 of 5  
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Comments				
weston solutions				7	7	7	7	7	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Matrix								
100T 090 Orland Park		50010169										
Project Location/State		Lab PM										
Orland Park, IL		wright										
Sampler												
Seng												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCs	metals	TCU/SPU Metals	pH	Comments
11		RT1-3(5-10)-092914	9/29/14	13:35	2	SO	X	X	X	X	X	
12		RT1-2(0-5)-092914		13:55								
13		RT1-2(5-10)-092914		14:00								
14		RT1-1(0-5)-092914		14:10								
15		RT1-1(5-10)-092914		14:15								
16		RT1-1(5-10)-092914D		14:15								
17		RS-4(0-5)-092914		14:30								
18		RS-4(5-10)-092914		14:35								
19		RS-3(0-5)-092914		14:55								
20		RS-3(5-10)-092914	9/29/14	15:00	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>David Sen</u>	Company <u>Weston</u>	Date <u>9/29/14</u>	Time <u>16:00</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>1600</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/30/14</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 SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments:

Lab Comments:



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: FAU 297: US 6 (Southwest Hwy) at 179th St Office Phone Number, if available: \_\_\_\_\_

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

11745 Ballirmary Court, 17800 Crestview Drive, and 11803 to 11818 Brook Hill Court

City: Orland Park 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: 41.56496543 Longitude: -87.90427651  
(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: FAU 297: US 6 (Southwest Hwy) at 179th St

Latitude: 41.56496543 Longitude: -87.90427651

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 RS-2, RS-3, AND RS-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2532-3. 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: 500-85172-1;  
 TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-85076-1; and  
 TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-85077-1.

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

I, Kurt T. Fischer 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

Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

11/18/14

Date:



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

**Summary Table of ISGS Site No. 2532-3**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	RS-2(0-5)-093014	RS-2(5-10)-093014	RS-2(10-15)-093014	RS-3(0-5)-092914	RS-3(5-10)-092914	RS-3(5-10)-092914D	RS-4(0-5)-092914	RS-4(5-10)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/30/2014	9/30/2014	9/30/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	RS-2	RS-2	RS-2	RS-3	RS-3	RS-3	RS-4	RS-4	
Depth	0 - 5	5 - 10	10 - 15	0 - 5	5 - 10	5 - 10	0 - 5	5 - 10	
ISGS Site Number	3523-3	3523-3	3523-3	3523-3	3523-3	3523-3	3523-3	3523-3	
<b>Parameter</b>									
Laboratory pH (s.u.)	7.85	7.26	7.57	7.65	7.79	7.87	7.66	6.3	<6.25, >9.0
<b>VOCs (ug/kg)</b>									
Acetone	23	33	12	ND	9	9.3	200	94	25000
Methyl ethyl ketone	ND	3.8 J	ND	ND	ND	ND	39	9.8	---
<b>SVOCs (ug/kg)</b>									
Benzo(b)fluoranthene	ND	ND	ND	12 J	ND	ND	15 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	42	ND	ND	ND	ND	ND	---
Fluoranthene	12 J	ND	ND	9 J	ND	ND	ND	ND	3100000
Pyrene	20 J	ND	14 J	9.8 J	ND	ND	ND	ND	2300000
<b>Total Metals (mg/kg)</b>									
Arsenic, Total	7.4	7.1	5.2	8.3 J	7.8 J	8.6	7.4 J	9.3 J	11.3 / 13
Barium, Total	79 B	65 B	32 B	65 J	28 J	31	80 J	86 J	1500
Beryllium, Total	0.71	0.75	0.48	0.61	0.47	0.6	0.67	0.59	22
Cadmium, Total	0.29	0.14	0.15	0.35 J-	0.35 J-	0.22 B	0.16 J-	0.23 J-	5.2
Calcium, Total	11000 B	2400 B	97000	16000 J	33000 J	17000 J	6600 J	2000 J	---
Chromium, Total	16	20	14	17 J	14 J	14	18 J	15 J	21
Cobalt, Total	9.2	14	7.8	10 J	11 J	14	11 J	9.7 J	20
Copper, Total	17 B	21 B	14 B	26 J-	23 J-	25	19 J-	20 J-	2900
Iron, Total	17000	21000	14000	20000 J-	18000 J-	20000	19000 J-	21000 J-	15000 / 15900
Lead, Total	25	15	7.9	25 J-	13 J-	19 B	28 J-	19 J-	107
Magnesium, Total	7700 B	4400 B	44000 B	11000 J	21000 J	13000 B	5500 J	2600 J	325000
Manganese, Total	400 B	460 B	330 B	530 J	430 J	360 B	590 J	490 J	630 / 636
Mercury, Total	0.041	0.036	0.022	0.045	0.019	0.025	0.034	0.036	0.89
Nickel, Total	22 B	34 B	22 B	23 J	26 J	31	19 J	20 J	100
Potassium, Total	1800	2100	2000	2200 J	2200 J	1500 B	2200 J	1300 J	---
Selenium, Total	0.36 J	0.37 J	0.46 J	ND	ND	ND	0.28 J	0.32 J	1.3
Sodium, Total	2600	760	290	89 J+	110 J	62 J	72 J+	51 J	---
Thallium, Total	ND	ND	0.28 J	1.2	1.2 J	ND	1.2	1.4	2.6
Vanadium, Total	21	23	16	19 J	14 J	14	24 J	23 J	550
Zinc, Total	84 B	77 B	58 B	70 J-	48 J-	65 B	66 J-	55 J-	5100
<b>TCLP Metals (mg/l)</b>									
Barium, TCLP	0.65	0.16 J	0.36 J	0.41 J	0.26 J	0.28 J	0.43 J	0.38 J	2
Cadmium, TCLP	0.0032 J	ND	0.0045 J	0.0023 J	ND	0.0022 J	ND	ND	0.005
Cobalt, TCLP	0.052	ND	0.029	0.017 J	ND	ND	0.014 J	0.036	1
Copper, TCLP	0.012 J	ND	0.08	0.048 J	0.054 J	0.027 J	0.061	0.051	0.65
Iron, TCLP	0.74	ND	0.28	0.2	ND	0.2	ND	0.23	5
Lead, TCLP	ND	ND	0.0084	ND	ND	ND	ND	0.011	0.0075
Manganese, TCLP	21 J+	3 J+	4.4 J+	5.3 J	1.4 J	2.5 J	2.9	7.1	0.15
Nickel, TCLP	0.037	0.018 J	0.02 J	0.019 J	0.015 J	0.021 J	0.011 J	0.022 J	0.1
Zinc, TCLP	0.79 B	ND	ND	ND	ND	ND	ND	ND	5

**Summary Table of ISGS Site No. 2532-3**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	RS-2(0-5)-093014	RS-2(5-10)-093014	RS-2(10-15)-093014	RS-3(0-5)-092914	RS-3(5-10)-092914	RS-3(5-10)-092914D	RS-4(0-5)-092914	RS-4(5-10)-092914	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/30/2014	9/30/2014	9/30/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	9/29/2014	
Location ID	RS-2	RS-2	RS-2	RS-3	RS-3	RS-3	RS-4	RS-4	
Depth	0 - 5	5 - 10	10 - 15	0 - 5	5 - 10	5 - 10	0 - 5	5 - 10	
ISGS Site Number	3523-3	3523-3	3523-3	3523-3	3523-3	3523-3	3523-3	3523-3	
Parameter									
SPLP Metals (mg/l)									
Arsenic, SPLP	0.052	ND	ND	0.021 J	ND	0.046 J	0.021 J	0.026 J	0.05
Barium, SPLP	0.56	0.2 J	0.11 J	0.2 J	0.064 J	0.17 J	0.23 J	0.32 J	2
Beryllium, SPLP	0.0044	ND	ND	ND	ND	0.0041	ND	ND	0.004
Chromium, SPLP	0.12	0.046	0.014 J	0.051	ND	0.077 J	0.058	0.056	0.1
Cobalt, SPLP	0.048	ND	ND	0.017 J	ND	0.027	0.018 J	0.023 J	1
Copper, SPLP	0.14	0.1	0.049	0.06	0.011 J	0.12 J	0.062	0.05	0.65
Iron, SPLP	120	33	8	47 J+	3.2 J	97 J	54 J+	61 J+	5
Lead, SPLP	0.11	0.035	0.013	0.047	ND	0.044 J	0.044	0.04	0.0075
Manganese, SPLP	1.7	0.31	0.21	0.3	0.14 J	0.52 J	0.29	0.8	0.15
Nickel, SPLP	0.12	0.037	0.013 J	0.052	ND	0.11 J	0.054	0.054	0.1
Zinc, SPLP	0.36 B	0.19 B	ND	0.16	0.034 J	0.27 J	0.17	0.17	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.

B - Constituent detected in investigative and blank sample.

ND - Constituent not detected above the reporting limit.

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: 500-85076-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/16/2014 1:34:41 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**

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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.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(0-5)-092914**

**Lab Sample ID: 500-85076-17**

**Date Collected: 09/29/14 14:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>200</b>		6.2	2.7	ug/Kg	☼		10/10/14 04:04	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		10/10/14 04:04	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 04:04	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/10/14 04:04	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/10/14 04:04	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		10/10/14 04:04	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 04:04	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/10/14 04:04	1
Chloroethane	<6.2 *		6.2	1.7	ug/Kg	☼		10/10/14 04:04	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		10/10/14 04:04	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/10/14 04:04	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		10/10/14 04:04	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		10/10/14 04:04	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 04:04	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		10/10/14 04:04	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/10/14 04:04	1
1,1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/10/14 04:04	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		10/10/14 04:04	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		10/10/14 04:04	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		10/10/14 04:04	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/10/14 04:04	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		10/10/14 04:04	1
<b>Methyl Ethyl Ketone</b>	<b>39</b>		6.2	2.2	ug/Kg	☼		10/10/14 04:04	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/10/14 04:04	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/10/14 04:04	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		10/10/14 04:04	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		10/10/14 04:04	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		10/10/14 04:04	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		10/10/14 04:04	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		10/10/14 04:04	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 04:04	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/10/14 04:04	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		10/10/14 04:04	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/10/14 04:04	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/10/14 04:04	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/10/14 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		10/10/14 04:04	1
Dibromofluoromethane	104		75 - 120		10/10/14 04:04	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/10/14 04:04	1
Toluene-d8 (Surr)	100		75 - 122		10/10/14 04:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(0-5)-092914**

**Lab Sample ID: 500-85076-17**

**Date Collected: 09/29/14 14:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2-Methylphenol	<200		200	65	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
4-Chlorophenyl phenyl ether	<200 *		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Anthracene	<40		40	6.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
<b>Benzo[b]fluoranthene</b>	<b>15 J</b>		40	8.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Benzo[k]fluoranthene	<40 *		40	12	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Carbazole	<200 *		200	100	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Chrysene	<40		40	11	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Dibenz(a,h)anthracene	<40 *		40	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Dibenzofuran	<200 *		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Fluoranthene	<40		40	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Fluorene	<40		40	5.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(0-5)-092914**

**Lab Sample ID: 500-85076-17**

**Date Collected: 09/29/14 14:30**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 81.0**

**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	<40		40	10	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Naphthalene	<40		40	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Phenol	<200		200	89	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Pyrene	<40		40	8.0	ug/Kg	☼	10/09/14 07:00	10/16/14 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		35 - 137				10/09/14 07:00	10/16/14 05:02	1
2-Fluorobiphenyl	63		25 - 119				10/09/14 07:00	10/16/14 05:02	1
2-Fluorophenol	56		25 - 110				10/09/14 07:00	10/16/14 05:02	1
Nitrobenzene-d5	60		25 - 115				10/09/14 07:00	10/16/14 05:02	1
Phenol-d5	56		31 - 110				10/09/14 07:00	10/16/14 05:02	1
Terphenyl-d14	94		36 - 134				10/09/14 07:00	10/16/14 05:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 20:49	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:49	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:49	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:49	1
<b>Copper</b>	<b>0.061</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:49	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:49	1
<b>Manganese</b>	<b>2.9</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:49	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:49	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:49	1
<b>Zinc</b>	<b>0.084</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.021</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Chromium</b>	<b>0.058</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Cobalt</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Copper</b>	<b>0.062</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Iron</b>	<b>54</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Lead</b>	<b>0.044</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:30	1
<b>Nickel</b>	<b>0.054</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:30	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(0-5)-092914**

**Lab Sample ID: 500-85076-17**

Date Collected: 09/29/14 14:30

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:30	1
Zinc	0.17		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Arsenic	7.4		0.59	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Barium	80		0.59	0.063	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Beryllium	0.67		0.24	0.047	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Cadmium	0.16		0.12	0.015	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Calcium	6600		12	3.2	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Chromium	18	B	0.59	0.069	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Cobalt	11		0.30	0.059	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Copper	19		0.59	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Iron	19000		12	4.9	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Lead	28		0.30	0.088	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Magnesium	5500		5.9	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Manganese	590		0.59	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Nickel	19		0.59	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Potassium	2200	B	30	1.8	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Selenium	0.28	J	0.59	0.21	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Sodium	72		59	7.9	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Thallium	1.2		0.59	0.25	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Vanadium	24		0.30	0.044	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1
Zinc	66	B	1.2	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 22:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:41	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	34		20	7.9	ug/Kg	☼	10/08/14 11:00	10/09/14 08:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU			10/13/14 14:59	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(5-10)-092914**

**Lab Sample ID: 500-85076-18**

**Date Collected: 09/29/14 14:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 79.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>94</b>		6.3	2.7	ug/Kg	☼		10/10/14 17:57	1
Benzene	<6.3		6.3	0.86	ug/Kg	☼		10/10/14 17:57	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		10/10/14 17:57	1
Bromoform	<6.3		6.3	1.4	ug/Kg	☼		10/10/14 17:57	1
Bromomethane	<6.3		6.3	1.9	ug/Kg	☼		10/10/14 17:57	1
Carbon disulfide	<6.3		6.3	0.94	ug/Kg	☼		10/10/14 17:57	1
Carbon tetrachloride	<6.3		6.3	1.1	ug/Kg	☼		10/10/14 17:57	1
Chlorobenzene	<6.3		6.3	0.64	ug/Kg	☼		10/10/14 17:57	1
Chloroethane	<6.3		6.3	1.7	ug/Kg	☼		10/10/14 17:57	1
Chloroform	<6.3		6.3	0.72	ug/Kg	☼		10/10/14 17:57	1
Chloromethane	<6.3		6.3	1.3	ug/Kg	☼		10/10/14 17:57	1
cis-1,2-Dichloroethene	<6.3		6.3	0.89	ug/Kg	☼		10/10/14 17:57	1
cis-1,3-Dichloropropene	<6.3		6.3	0.82	ug/Kg	☼		10/10/14 17:57	1
Dibromochloromethane	<6.3		6.3	1.1	ug/Kg	☼		10/10/14 17:57	1
1,1-Dichloroethane	<6.3		6.3	0.99	ug/Kg	☼		10/10/14 17:57	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	☼		10/10/14 17:57	1
1,1-Dichloroethene	<6.3		6.3	1.0	ug/Kg	☼		10/10/14 17:57	1
1,2-Dichloropropane	<6.3		6.3	0.95	ug/Kg	☼		10/10/14 17:57	1
1,3-Dichloropropene, Total	<6.3		6.3	0.82	ug/Kg	☼		10/10/14 17:57	1
Ethylbenzene	<6.3		6.3	1.3	ug/Kg	☼		10/10/14 17:57	1
2-Hexanone	<6.3		6.3	1.8	ug/Kg	☼		10/10/14 17:57	1
Methylene Chloride	<6.3		6.3	1.7	ug/Kg	☼		10/10/14 17:57	1
<b>Methyl Ethyl Ketone</b>	<b>9.8</b>		6.3	2.3	ug/Kg	☼		10/10/14 17:57	1
methyl isobutyl ketone	<6.3		6.3	1.6	ug/Kg	☼		10/10/14 17:57	1
Methyl tert-butyl ether	<6.3		6.3	1.0	ug/Kg	☼		10/10/14 17:57	1
Styrene	<6.3		6.3	0.82	ug/Kg	☼		10/10/14 17:57	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	1.3	ug/Kg	☼		10/10/14 17:57	1
Tetrachloroethene	<6.3		6.3	0.96	ug/Kg	☼		10/10/14 17:57	1
Toluene	<6.3		6.3	0.88	ug/Kg	☼		10/10/14 17:57	1
trans-1,2-Dichloroethene	<6.3		6.3	0.86	ug/Kg	☼		10/10/14 17:57	1
trans-1,3-Dichloropropene	<6.3		6.3	1.1	ug/Kg	☼		10/10/14 17:57	1
1,1,1-Trichloroethane	<6.3		6.3	0.94	ug/Kg	☼		10/10/14 17:57	1
1,1,2-Trichloroethane	<6.3		6.3	0.86	ug/Kg	☼		10/10/14 17:57	1
Trichloroethene	<6.3		6.3	1.0	ug/Kg	☼		10/10/14 17:57	1
Vinyl chloride	<6.3		6.3	1.3	ug/Kg	☼		10/10/14 17:57	1
Xylenes, Total	<13		13	0.57	ug/Kg	☼		10/10/14 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/10/14 17:57	1
Dibromofluoromethane	104		75 - 120		10/10/14 17:57	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/10/14 17:57	1
Toluene-d8 (Surr)	99		75 - 122		10/10/14 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(5-10)-092914**

**Lab Sample ID: 500-85076-18**

**Date Collected: 09/29/14 14:35**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2-Methylphenol	<200		200	65	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
4-Chlorophenyl phenyl ether	<200 *		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Anthracene	<40		40	6.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Benzo[b]fluoranthene	<40		40	8.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Benzo[k]fluoranthene	<40 *		40	12	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Carbazole	<200 *		200	100	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Chrysene	<40		40	11	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Dibenz(a,h)anthracene	<40 *		40	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Dibenzofuran	<200 *		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Fluoranthene	<40		40	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Fluorene	<40		40	5.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(5-10)-092914**

**Lab Sample ID: 500-85076-18**

Date Collected: 09/29/14 14:35

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 79.7

**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	<40		40	10	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Naphthalene	<40		40	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Phenol	<200		200	90	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Pyrene	<40		40	8.0	ug/Kg	☼	10/09/14 07:00	10/16/14 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		35 - 137				10/09/14 07:00	10/16/14 05:23	1
2-Fluorobiphenyl	54		25 - 119				10/09/14 07:00	10/16/14 05:23	1
2-Fluorophenol	51		25 - 110				10/09/14 07:00	10/16/14 05:23	1
Nitrobenzene-d5	53		25 - 115				10/09/14 07:00	10/16/14 05:23	1
Phenol-d5	51		31 - 110				10/09/14 07:00	10/16/14 05:23	1
Terphenyl-d14	89		36 - 134				10/09/14 07:00	10/16/14 05:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:54	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Cobalt</b>	<b>0.036</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Copper</b>	<b>0.051</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Manganese</b>	<b>7.1</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:54	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:54	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:54	1
<b>Zinc</b>	<b>0.089</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.026</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Chromium</b>	<b>0.056</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Copper</b>	<b>0.050</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Iron</b>	<b>61</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Lead</b>	<b>0.040</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Manganese</b>	<b>0.80</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:36	1
<b>Nickel</b>	<b>0.054</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-4(5-10)-092914**

**Lab Sample ID: 500-85076-18**

Date Collected: 09/29/14 14:35

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:36	1
Zinc	0.17		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:36	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Arsenic	9.3		0.58	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Barium	86		0.58	0.062	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Beryllium	0.59		0.23	0.046	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Cadmium	0.23		0.12	0.015	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Calcium	2000		12	3.1	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Chromium	15	B	0.58	0.067	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Cobalt	9.7		0.29	0.058	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Copper	20		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Iron	21000		12	4.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Lead	19		0.29	0.086	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Magnesium	2600		5.8	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Manganese	490		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Nickel	20		0.58	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Potassium	1300	B	29	1.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Selenium	0.32	J	0.58	0.21	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Sodium	51	J	58	7.7	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Thallium	1.4		0.58	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Vanadium	23		0.29	0.043	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1
Zinc	55	B	1.2	0.23	mg/Kg	☼	10/09/14 10:30	10/10/14 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:43	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	36		21	8.2	ug/Kg	☼	10/08/14 11:00	10/09/14 08:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.30		0.200	0.200	SU			10/13/14 15:17	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(0-5)-092914**

**Lab Sample ID: 500-85076-19**

Date Collected: 09/29/14 14:55

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 78.6

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.4		6.4	2.7	ug/Kg	☼		10/10/14 07:20	1
Benzene	<6.4		6.4	0.87	ug/Kg	☼		10/10/14 07:20	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		10/10/14 07:20	1
Bromoform	<6.4		6.4	1.5	ug/Kg	☼		10/10/14 07:20	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	☼		10/10/14 07:20	1
Carbon disulfide	<6.4		6.4	0.95	ug/Kg	☼		10/10/14 07:20	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	☼		10/10/14 07:20	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	☼		10/10/14 07:20	1
Chloroethane	<6.4 *		6.4	1.7	ug/Kg	☼		10/10/14 07:20	1
Chloroform	<6.4		6.4	0.73	ug/Kg	☼		10/10/14 07:20	1
Chloromethane	<6.4		6.4	1.3	ug/Kg	☼		10/10/14 07:20	1
cis-1,2-Dichloroethene	<6.4		6.4	0.90	ug/Kg	☼		10/10/14 07:20	1
cis-1,3-Dichloropropene	<6.4		6.4	0.83	ug/Kg	☼		10/10/14 07:20	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	☼		10/10/14 07:20	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	☼		10/10/14 07:20	1
1,2-Dichloroethane	<6.4		6.4	0.94	ug/Kg	☼		10/10/14 07:20	1
1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	☼		10/10/14 07:20	1
1,2-Dichloropropane	<6.4		6.4	0.97	ug/Kg	☼		10/10/14 07:20	1
1,3-Dichloropropene, Total	<6.4		6.4	0.83	ug/Kg	☼		10/10/14 07:20	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	☼		10/10/14 07:20	1
2-Hexanone	<6.4		6.4	1.8	ug/Kg	☼		10/10/14 07:20	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	☼		10/10/14 07:20	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		10/10/14 07:20	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	☼		10/10/14 07:20	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	☼		10/10/14 07:20	1
Styrene	<6.4		6.4	0.83	ug/Kg	☼		10/10/14 07:20	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	☼		10/10/14 07:20	1
Tetrachloroethene	<6.4		6.4	0.97	ug/Kg	☼		10/10/14 07:20	1
Toluene	<6.4		6.4	0.89	ug/Kg	☼		10/10/14 07:20	1
trans-1,2-Dichloroethene	<6.4		6.4	0.88	ug/Kg	☼		10/10/14 07:20	1
trans-1,3-Dichloropropene	<6.4		6.4	1.1	ug/Kg	☼		10/10/14 07:20	1
1,1,1-Trichloroethane	<6.4		6.4	0.95	ug/Kg	☼		10/10/14 07:20	1
1,1,2-Trichloroethane	<6.4		6.4	0.87	ug/Kg	☼		10/10/14 07:20	1
Trichloroethene	<6.4		6.4	1.0	ug/Kg	☼		10/10/14 07:20	1
Vinyl chloride	<6.4		6.4	1.3	ug/Kg	☼		10/10/14 07:20	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		10/10/14 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 07:20	1
Dibromofluoromethane	107		75 - 120		10/10/14 07:20	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		10/10/14 07:20	1
Toluene-d8 (Surr)	97		75 - 122		10/10/14 07:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(0-5)-092914**

**Lab Sample ID: 500-85076-19**

Date Collected: 09/29/14 14:55

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2-Methylphenol	<200		200	65	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
4-Chlorophenyl phenyl ether	<200 *		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Anthracene	<40		40	6.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
<b>Benzo[b]fluoranthene</b>	<b>12 J</b>		40	8.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Benzo[k]fluoranthene	<40 *		40	12	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Carbazole	<200 *		200	100	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Chrysene	<40		40	11	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Dibenz(a,h)anthracene	<40 *		40	7.8	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Dibenzofuran	<200 *		200	47	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
<b>Fluoranthene</b>	<b>9.0 J</b>		40	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Fluorene	<40		40	5.7	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(0-5)-092914**

**Lab Sample ID: 500-85076-19**

Date Collected: 09/29/14 14:55

Matrix: Solid

Date Received: 09/30/14 06:30

Percent Solids: 78.6

**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	<40		40	10	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Isophorone	<200		200	45	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Naphthalene	<40		40	6.2	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
Phenol	<200		200	90	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1
<b>Pyrene</b>	<b>9.8</b>	<b>J</b>	40	8.0	ug/Kg	☼	10/09/14 07:00	10/16/14 05:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137	10/09/14 07:00	10/16/14 05:44	1
2-Fluorobiphenyl	71		25 - 119	10/09/14 07:00	10/16/14 05:44	1
2-Fluorophenol	62		25 - 110	10/09/14 07:00	10/16/14 05:44	1
Nitrobenzene-d5	65		25 - 115	10/09/14 07:00	10/16/14 05:44	1
Phenol-d5	60		31 - 110	10/09/14 07:00	10/16/14 05:44	1
Terphenyl-d14	103		36 - 134	10/09/14 07:00	10/16/14 05:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 20:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 20:59	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Copper</b>	<b>0.048</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 20:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Manganese</b>	<b>5.3</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:59	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 20:59	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 20:59	1
<b>Zinc</b>	<b>0.085</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.021</b>	<b>J</b>	0.050	0.010	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Chromium</b>	<b>0.051</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Copper</b>	<b>0.060</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Iron</b>	<b>47</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Lead</b>	<b>0.047</b>		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:43	1
<b>Nickel</b>	<b>0.052</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:43	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(0-5)-092914**

**Lab Sample ID: 500-85076-19**

**Date Collected: 09/29/14 14:55**

**Matrix: Solid**

**Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:43	1
Zinc	0.16		0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:43	1

### Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Arsenic	8.3		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Barium	65		0.60	0.064	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Beryllium	0.61		0.24	0.048	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Cadmium	0.35		0.12	0.015	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Calcium	16000		12	3.3	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Chromium	17	B	0.60	0.070	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Cobalt	10		0.30	0.060	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Copper	26		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Iron	20000		12	4.9	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Lead	25		0.30	0.090	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Magnesium	11000		6.0	1.2	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Manganese	530		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Nickel	23		0.60	0.12	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Potassium	2200	B	30	1.8	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Silver	0.033	J B	0.30	0.022	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Sodium	89		60	8.1	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Thallium	1.2		0.60	0.25	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Vanadium	19		0.30	0.045	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1
Zinc	70	B	1.2	0.24	mg/Kg	☼	10/09/14 10:30	10/10/14 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:45	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	45		21	8.1	ug/Kg	☼	10/08/14 11:00	10/09/14 08:53	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			10/13/14 15:26	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(5-10)-092914**

**Lab Sample ID: 500-85076-20**

**Date Collected: 09/29/14 15:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.0		5.8	2.5	ug/Kg	☼		10/10/14 19:10	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		10/10/14 19:10	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 19:10	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/10/14 19:10	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		10/10/14 19:10	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 19:10	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		10/10/14 19:10	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		10/10/14 19:10	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		10/10/14 19:10	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		10/10/14 19:10	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 19:10	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		10/10/14 19:10	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		10/10/14 19:10	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 19:10	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		10/10/14 19:10	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/10/14 19:10	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		10/10/14 19:10	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		10/10/14 19:10	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		10/10/14 19:10	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 19:10	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/10/14 19:10	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/10/14 19:10	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/10/14 19:10	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/10/14 19:10	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		10/10/14 19:10	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		10/10/14 19:10	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 19:10	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		10/10/14 19:10	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		10/10/14 19:10	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		10/10/14 19:10	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/10/14 19:10	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		10/10/14 19:10	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		10/10/14 19:10	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		10/10/14 19:10	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/10/14 19:10	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		10/10/14 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		10/10/14 19:10	1
Dibromofluoromethane	106		75 - 120		10/10/14 19:10	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		10/10/14 19:10	1
Toluene-d8 (Surr)	100		75 - 122		10/10/14 19:10	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	☼	10/09/14 07:00	10/16/14 06:04	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(5-10)-092914**

**Lab Sample ID: 500-85076-20**

**Date Collected: 09/29/14 15:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.4**

**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	86	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
4-Chlorophenyl phenyl ether	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Anthracene	<38		38	6.3	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Carbazole	<190 *		190	98	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Chrysene	<38		38	10	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Dibenz(a,h)anthracene	<38 *		38	7.3	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Dibenzofuran	<190 *		190	44	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Fluorene	<38		38	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Hexachloroethane	<190		190	58	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(5-10)-092914**

**Lab Sample ID: 500-85076-20**

**Date Collected: 09/29/14 15:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 86.4**

**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	9.8	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Isophorone	<190		190	42	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Naphthalene	<38		38	5.8	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Phenol	<190		190	84	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Pyrene	<38		38	7.5	ug/Kg	☼	10/09/14 07:00	10/16/14 06:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		35 - 137				10/09/14 07:00	10/16/14 06:04	1
2-Fluorobiphenyl	66		25 - 119				10/09/14 07:00	10/16/14 06:04	1
2-Fluorophenol	64		25 - 110				10/09/14 07:00	10/16/14 06:04	1
Nitrobenzene-d5	67		25 - 115				10/09/14 07:00	10/16/14 06:04	1
Phenol-d5	59		31 - 110				10/09/14 07:00	10/16/14 06:04	1
Terphenyl-d14	102		36 - 134				10/09/14 07:00	10/16/14 06:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 08:45	10/14/14 21:05	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 08:45	10/14/14 21:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 08:45	10/14/14 21:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/13/14 08:45	10/14/14 21:05	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 21:05	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 21:05	1
<b>Copper</b>	<b>0.054</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 21:05	1
Iron	<0.20		0.20	0.20	mg/L		10/13/14 08:45	10/14/14 21:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 08:45	10/14/14 21:05	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 21:05	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 08:45	10/14/14 21:05	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 08:45	10/14/14 21:05	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 08:45	10/14/14 21:05	1
<b>Zinc</b>	<b>0.063</b>	<b>J B ^</b>	0.10	0.020	mg/L		10/13/14 08:45	10/14/14 21:05	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		10/10/14 09:45	10/11/14 18:49	1
<b>Barium</b>	<b>0.064</b>	<b>J</b>	0.50	0.050	mg/L		10/10/14 09:45	10/11/14 18:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/14 09:45	10/11/14 18:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/14 09:45	10/11/14 18:49	1
Chromium	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:49	1
Cobalt	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:49	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:49	1
<b>Iron</b>	<b>3.2</b>		0.20	0.20	mg/L		10/10/14 09:45	10/11/14 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/10/14 09:45	10/11/14 18:49	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:49	1
Nickel	<0.025		0.025	0.010	mg/L		10/10/14 09:45	10/11/14 18:49	1
Selenium	<0.050		0.050	0.020	mg/L		10/10/14 09:45	10/11/14 18:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

**Client Sample ID: RS-3(5-10)-092914**

**Lab Sample ID: 500-85076-20**

Date Collected: 09/29/14 15:00

Matrix: Solid

Date Received: 09/30/14 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		10/10/14 09:45	10/11/14 18:49	1
<b>Zinc</b>	<b>0.034</b>	<b>J</b>	0.10	0.020	mg/L		10/10/14 09:45	10/11/14 18:49	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	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Arsenic</b>	<b>7.8</b>		0.53	0.10	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Barium</b>	<b>28</b>		0.53	0.056	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Beryllium</b>	<b>0.47</b>		0.21	0.042	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.013	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Calcium</b>	<b>33000</b>		11	2.9	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.53	0.061	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Cobalt</b>	<b>11</b>		0.26	0.053	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Copper</b>	<b>23</b>		0.53	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Iron</b>	<b>18000</b>		11	4.3	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Lead</b>	<b>13</b>		0.26	0.079	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Magnesium</b>	<b>21000</b>		5.3	1.1	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Manganese</b>	<b>430</b>		0.53	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Nickel</b>	<b>26</b>		0.53	0.11	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Potassium</b>	<b>2200</b>	<b>B</b>	26	1.6	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Sodium</b>	<b>110</b>		53	7.1	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Thallium</b>	<b>1.2</b>		0.53	0.22	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Vanadium</b>	<b>14</b>		0.26	0.039	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.1	0.21	mg/Kg	☼	10/09/14 10:30	10/10/14 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/13/14 11:30	10/14/14 10:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/10/14 12:00	10/13/14 12:47	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>19</b>		18	7.1	ug/Kg	☼	10/08/14 11:00	10/09/14 08:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.79</b>		0.200	0.200	SU			10/13/14 15:35	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.
F1	MS and/or MSD Recovery exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
L	A negative instrument reading had an absolute value greater than the reporting limit
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.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85076-1

## 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 ENVIRONMENTAL

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



500-85076 COC

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: S. Babusukumar Contact: Same  
 Company: Weston Company: \_\_\_\_\_  
 Address: 300 Plaza Circle #202 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-864-7250 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-85076

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

Page 3 of 5

Temperature °C of Cooler: (2.7) (3.1)

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		# of Containers		Matrix				
Project Location/State		Lab PM		Date	Time							
<u>Weston Solutions</u>		<u>50010169</u>								VOCs 5 VOCs Total Metals Tcup/sep metals pH		
<u>IDOT 090 orland park</u>		<u>Wright</u>										
<u>Orland Park, IL</u>												
<u>Sing</u>												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					Comments	
1		VL-5(5-10)-092914	9/29/14	11:35	2	SO	X	X	X		X	
2		VL-6(0-5)-092914		11:50								
3		VL-6(5-10)-092914		11:55								
4		VL-7(0-5)-092914		12:10								
5		VL-7(5-10)-092914		12:15								
6		RT1-5(0-5)-092914		12:40								
7		RT1-5(5-10)-092914		12:45								
8		RT1-4(0-5)-092914		13:00								
9		RT1-4(5-10)-092914		13:05								
10		RT1-3(0-5)-092914	9/29/14	13:30	2	SO	X	X	X	X		

Turnaround Time Required (Business Days)

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

Requested Due Date \_\_\_\_\_

Sample Disposal

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

Relinquished By <u>David Sena</u>	Company <u>Weston</u>	Date <u>9/29/14</u>	Time <u>16:00</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>16:00</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>16:45</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>06:30</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: Si Babusukumar  
 Company: Weston  
 Address: 300 Plaza Circle #202  
Mundelein, IL 60060  
 Phone: 224-864-7520  
 Fax:  
 E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85076  
 Chain of Custody Number:  
 Page 4 of 5  
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Comments				
weston solutions				7	7	7	7	7	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Matrix								
100T 090 Orland Park		50010169										
Project Location/State		Lab PM										
Orland Park, IL		wright										
Sampler												
Seng												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCs	metals	TCU/SPU Metals	pH	Comments
11		RT1-3(5-10)-092914	9/29/14	13:35	2	SO	X	X	X	X	X	
12		RT1-2(0-5)-092914		13:55								
13		RT1-2(5-10)-092914		14:00								
14		RT1-1(0-5)-092914		14:10								
15		RT1-1(5-10)-092914		14:15								
16		RT1-1(5-10)-092914D		14:15								
17		RS-4(0-5)-092914		14:30								
18		RS-4(5-10)-092914		14:35								
19		RS-3(0-5)-092914		14:55								
20		RS-3(5-10)-092914	9/29/14	15:00	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>David Sen</u>	Company <u>Weston</u>	Date <u>9/29/14</u>	Time <u>16:00</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>1600</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/29/14</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/30/14</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 SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments:

Lab Comments:



# 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: 500-85077-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/15/2014 3:13:14 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
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- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85077-1

**Client Sample ID: RS-3(5-10)-092914D**

**Lab Sample ID: 500-85077-1**

**Date Collected: 09/29/14 15:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.3		5.9	2.6	ug/Kg	☼		10/09/14 15:54	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 15:54	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 15:54	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/09/14 15:54	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/09/14 15:54	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 15:54	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 15:54	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/09/14 15:54	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 15:54	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/09/14 15:54	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 15:54	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		10/09/14 15:54	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		10/09/14 15:54	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/09/14 15:54	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/09/14 15:54	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 15:54	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/09/14 15:54	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		10/09/14 15:54	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		10/09/14 15:54	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 15:54	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/09/14 15:54	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/09/14 15:54	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/09/14 15:54	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/09/14 15:54	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		10/09/14 15:54	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		10/09/14 15:54	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 15:54	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/09/14 15:54	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		10/09/14 15:54	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 15:54	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/09/14 15:54	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/09/14 15:54	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		10/09/14 15:54	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		10/09/14 15:54	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/09/14 15:54	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/09/14 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/09/14 15:54	1
Dibromofluoromethane	101		75 - 120		10/09/14 15:54	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		10/09/14 15:54	1
Toluene-d8 (Surr)	99		75 - 122		10/09/14 15:54	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	☼	10/07/14 16:55	10/08/14 19:30	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85077-1

**Client Sample ID: RS-3(5-10)-092914D**

**Lab Sample ID: 500-85077-1**

**Date Collected: 09/29/14 15:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.6**

**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	☼	10/07/14 16:55	10/08/14 19:30	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2,4-Dinitrophenol	<770 *		770	670	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Anthracene	<38		38	6.4	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Carbazole	<190		190	99	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Chrysene	<38		38	10	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Hexachloroethane	<190		190	58	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85077-1

**Client Sample ID: RS-3(5-10)-092914D**

**Lab Sample ID: 500-85077-1**

**Date Collected: 09/29/14 15:00**

**Matrix: Solid**

**Date Received: 09/30/14 06:30**

**Percent Solids: 84.6**

**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	<38		38	9.9	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Isophorone	<190		190	43	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Phenol	<190		190	85	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Pyrene	<38		38	7.6	ug/Kg	☼	10/07/14 16:55	10/08/14 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137				10/07/14 16:55	10/08/14 19:30	1
2-Fluorobiphenyl	48		25 - 119				10/07/14 16:55	10/08/14 19:30	1
2-Fluorophenol	50		25 - 110				10/07/14 16:55	10/08/14 19:30	1
Nitrobenzene-d5	53		25 - 115				10/07/14 16:55	10/08/14 19:30	1
Phenol-d5	42		31 - 110				10/07/14 16:55	10/08/14 19:30	1
Terphenyl-d14	67		36 - 134				10/07/14 16:55	10/08/14 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/13/14 10:30	10/13/14 21:42	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		10/13/14 10:30	10/13/14 21:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/13/14 10:30	10/13/14 21:42	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		10/13/14 10:30	10/13/14 21:42	1
Chromium	<0.025		0.025	0.010	mg/L		10/13/14 10:30	10/13/14 21:42	1
Cobalt	<0.025		0.025	0.010	mg/L		10/13/14 10:30	10/13/14 21:42	1
<b>Copper</b>	<b>0.027</b>		0.025	0.010	mg/L		10/13/14 10:30	10/13/14 21:42	1
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		10/13/14 10:30	10/13/14 21:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/13/14 10:30	10/13/14 21:42	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		10/13/14 10:30	10/13/14 21:42	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		10/13/14 10:30	10/13/14 21:42	1
Selenium	<0.050		0.050	0.020	mg/L		10/13/14 10:30	10/13/14 21:42	1
Silver	<0.025		0.025	0.010	mg/L		10/13/14 10:30	10/13/14 21:42	1
<b>Zinc</b>	<b>0.16</b>	<b>B</b>	0.10	0.020	mg/L		10/13/14 10:30	10/13/14 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.046</b>	<b>J</b>	0.050	0.010	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Beryllium</b>	<b>0.0041</b>		0.0040	0.0040	mg/L		10/12/14 15:00	10/13/14 11:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Chromium</b>	<b>0.077</b>		0.025	0.010	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Iron</b>	<b>97</b>		0.20	0.20	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Lead</b>	<b>0.044</b>		0.038	0.038	mg/L		10/12/14 15:00	10/13/14 12:37	5
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		10/12/14 15:00	10/13/14 11:48	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		10/12/14 15:00	10/13/14 11:48	1
Selenium	<0.050		0.050	0.020	mg/L		10/12/14 15:00	10/13/14 11:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85077-1

**Client Sample ID: RS-3(5-10)-092914D**

**Lab Sample ID: 500-85077-1**

Date Collected: 09/29/14 15:00

Matrix: Solid

Date Received: 09/30/14 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		10/12/14 15:00	10/13/14 11:48	1
<b>Zinc</b>	<b>0.27</b>		0.20	0.020	mg/L		10/12/14 15:00	10/13/14 11:48	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	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Arsenic</b>	<b>8.6</b>		0.57	0.11	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Barium</b>	<b>31</b>		0.57	0.061	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Beryllium</b>	<b>0.60</b>		0.23	0.046	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Cadmium</b>	<b>0.22</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Calcium</b>	<b>17000</b>		11	3.1	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Chromium</b>	<b>14</b>		0.57	0.066	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Cobalt</b>	<b>14</b>		0.29	0.057	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Copper</b>	<b>25</b>		0.57	0.11	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Iron</b>	<b>20000</b>		11	4.7	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Lead</b>	<b>19</b>	<b>B</b>	0.29	0.085	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Magnesium</b>	<b>13000</b>	<b>B</b>	5.7	1.2	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Manganese</b>	<b>360</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Nickel</b>	<b>31</b>		0.57	0.11	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Potassium</b>	<b>1500</b>	<b>B</b>	29	1.7	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Sodium</b>	<b>62</b>		57	7.6	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Vanadium</b>	<b>14</b>		0.29	0.042	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1
<b>Zinc</b>	<b>65</b>	<b>B</b>	1.1	0.23	mg/Kg	☼	10/03/14 16:45	10/04/14 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 09:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:47	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>25</b>		18	7.1	ug/Kg	☼	10/08/14 11:00	10/09/14 10:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.87</b>		0.200	0.200	SU			10/13/14 15:45	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85077-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85077-1

## 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



Report To (optional)	Si Babusukuma	Bill To (optional)	Same
Contact:		Contact:	
Company:	Weston	Company:	
Address:	300 Plaza Circle #202	Address:	
Address:	Mundelein, IL 60060	Address:	
Phone:	224-864-7250	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

## Chain of Custody Record

Lab Job #: 500-85077

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

Page 5 of 5

Temperature °C of Cooler: (27) (37)

Client		Client Project #		Preservative		Parameter					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	
Weston Solutions				7	7	7	7	7				
Project Name		Lab Project #		Date		Time		# of Containers	Matrix	Comments		
IDOT 090 Orland Park				9-29-14		15:00		2	50			
Project Location/State		Lab PM		Sampling								
Orland Park, IL		Wright		Date		Time						
Sampler				Time								
Sena				15:00								
Lab ID	MIS/MSD	Sample ID										
1		RS-3(5-10)-092914D										
* last item *												

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>David Sun</u>	Company Weston	Date 9/29/14	Time 16:00	Received By <u>[Signature]</u>	Company JA	Date 9/29/14	Time 16:00
Relinquished By <u>[Signature]</u>	Company JA	Date 9/29/14	Time 16:45	Received By <u>[Signature]</u>	Company JA	Date 9/30/14	Time 06:30
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: JA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

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

Client Comments:

Lab Comments:



# 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: 500-85172-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/23/2014 4:19:54 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)

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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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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(0-5)-093014**

**Lab Sample ID: 500-85172-1**

Date Collected: 09/30/14 08:50

Matrix: Solid

Date Received: 10/01/14 08:00

Percent Solids: 74.5

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23		6.7	2.9	ug/Kg	☼		10/10/14 19:34	1
Benzene	<6.7		6.7	0.92	ug/Kg	☼		10/10/14 19:34	1
Bromodichloromethane	<6.7		6.7	1.2	ug/Kg	☼		10/10/14 19:34	1
Bromoform	<6.7		6.7	1.5	ug/Kg	☼		10/10/14 19:34	1
Bromomethane	<6.7		6.7	2.0	ug/Kg	☼		10/10/14 19:34	1
Carbon disulfide	<6.7		6.7	1.0	ug/Kg	☼		10/10/14 19:34	1
Carbon tetrachloride	<6.7		6.7	1.2	ug/Kg	☼		10/10/14 19:34	1
Chlorobenzene	<6.7		6.7	0.68	ug/Kg	☼		10/10/14 19:34	1
Chloroethane	<6.7		6.7	1.8	ug/Kg	☼		10/10/14 19:34	1
Chloroform	<6.7		6.7	0.77	ug/Kg	☼		10/10/14 19:34	1
Chloromethane	<6.7		6.7	1.4	ug/Kg	☼		10/10/14 19:34	1
cis-1,2-Dichloroethene	<6.7		6.7	0.95	ug/Kg	☼		10/10/14 19:34	1
cis-1,3-Dichloropropene	<6.7		6.7	0.88	ug/Kg	☼		10/10/14 19:34	1
Dibromochloromethane	<6.7		6.7	1.2	ug/Kg	☼		10/10/14 19:34	1
1,1-Dichloroethane	<6.7		6.7	1.1	ug/Kg	☼		10/10/14 19:34	1
1,2-Dichloroethane	<6.7		6.7	1.0	ug/Kg	☼		10/10/14 19:34	1
1,1-Dichloroethene	<6.7		6.7	1.1	ug/Kg	☼		10/10/14 19:34	1
1,2-Dichloropropane	<6.7		6.7	1.0	ug/Kg	☼		10/10/14 19:34	1
1,3-Dichloropropene, Total	<6.7		6.7	0.88	ug/Kg	☼		10/10/14 19:34	1
Ethylbenzene	<6.7		6.7	1.4	ug/Kg	☼		10/10/14 19:34	1
2-Hexanone	<6.7		6.7	1.9	ug/Kg	☼		10/10/14 19:34	1
Methylene Chloride	<6.7		6.7	1.8	ug/Kg	☼		10/10/14 19:34	1
Methyl Ethyl Ketone	<6.7		6.7	2.4	ug/Kg	☼		10/10/14 19:34	1
methyl isobutyl ketone	<6.7		6.7	1.8	ug/Kg	☼		10/10/14 19:34	1
Methyl tert-butyl ether	<6.7		6.7	1.1	ug/Kg	☼		10/10/14 19:34	1
Styrene	<6.7		6.7	0.88	ug/Kg	☼		10/10/14 19:34	1
1,1,1,2-Tetrachloroethane	<6.7		6.7	1.4	ug/Kg	☼		10/10/14 19:34	1
Tetrachloroethene	<6.7		6.7	1.0	ug/Kg	☼		10/10/14 19:34	1
Toluene	<6.7		6.7	0.94	ug/Kg	☼		10/10/14 19:34	1
trans-1,2-Dichloroethene	<6.7		6.7	0.92	ug/Kg	☼		10/10/14 19:34	1
trans-1,3-Dichloropropene	<6.7		6.7	1.2	ug/Kg	☼		10/10/14 19:34	1
1,1,1-Trichloroethane	<6.7		6.7	1.0	ug/Kg	☼		10/10/14 19:34	1
1,1,2-Trichloroethane	<6.7		6.7	0.92	ug/Kg	☼		10/10/14 19:34	1
Trichloroethene	<6.7		6.7	1.1	ug/Kg	☼		10/10/14 19:34	1
Vinyl chloride	<6.7		6.7	1.4	ug/Kg	☼		10/10/14 19:34	1
Xylenes, Total	<13		13	0.61	ug/Kg	☼		10/10/14 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/10/14 19:34	1
Dibromofluoromethane	106		75 - 120		10/10/14 19:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		10/10/14 19:34	1
Toluene-d8 (Surr)	101		75 - 122		10/10/14 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<220		220	47	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
1,2-Dichlorobenzene	<220		220	52	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
1,3-Dichlorobenzene	<220		220	49	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
1,4-Dichlorobenzene	<220		220	56	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2,2'-oxybis[1-chloropropane]	<220		220	51	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(0-5)-093014**

**Lab Sample ID: 500-85172-1**

**Date Collected: 09/30/14 08:50**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 74.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<430		430	100	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2,4,6-Trichlorophenol	<430		430	150	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2,4-Dichlorophenol	<430		430	100	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2,4-Dimethylphenol	<430		430	170	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2,4-Dinitrophenol	<880	*	880	770	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2,4-Dinitrotoluene	<220		220	69	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2,6-Dinitrotoluene	<220		220	86	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2-Chloronaphthalene	<220		220	48	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2-Chlorophenol	<220		220	74	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2-Methylnaphthalene	<43		43	8.0	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2-Methylphenol	<220		220	70	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2-Nitroaniline	<220		220	59	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
2-Nitrophenol	<430		430	100	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
3 & 4 Methylphenol	<220		220	73	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
3,3'-Dichlorobenzidine	<220		220	61	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
3-Nitroaniline	<430		430	140	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
4,6-Dinitro-2-methylphenol	<430		430	350	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
4-Bromophenyl phenyl ether	<220		220	58	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
4-Chloro-3-methylphenol	<430		430	150	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
4-Chloroaniline	<880		880	200	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
4-Chlorophenyl phenyl ether	<220		220	51	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
4-Nitroaniline	<430		430	180	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
4-Nitrophenol	<880		880	410	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Acenaphthene	<43		43	7.8	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Acenaphthylene	<43		43	5.8	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Anthracene	<43		43	7.3	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Benzo[a]anthracene	<43		43	5.9	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Benzo[a]pyrene	<43		43	8.4	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Benzo[b]fluoranthene	<43		43	9.4	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Benzo[g,h,i]perylene	<43		43	14	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Benzo[k]fluoranthene	<43		43	13	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Bis(2-chloroethoxy)methane	<220		220	45	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Bis(2-chloroethyl)ether	<220		220	65	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Bis(2-ethylhexyl) phthalate	<220		220	80	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Butyl benzyl phthalate	<220		220	83	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Carbazole	<220		220	110	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Chrysene	<43		43	12	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Dibenz(a,h)anthracene	<43		43	8.4	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Dibenzofuran	<220		220	51	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Diethyl phthalate	<220		220	74	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Dimethyl phthalate	<220		220	57	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Di-n-butyl phthalate	<220		220	66	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Di-n-octyl phthalate	<220		220	71	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
<b>Fluoranthene</b>	<b>12</b>	<b>J</b>	43	8.1	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Fluorene	<43		43	6.1	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Hexachlorobenzene	<88		88	10	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Hexachlorobutadiene	<220		220	69	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Hexachlorocyclopentadiene	<880		880	250	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Hexachloroethane	<220		220	66	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(0-5)-093014**

**Lab Sample ID: 500-85172-1**

**Date Collected: 09/30/14 08:50**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 74.5**

**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	<43		43	11	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Isophorone	<220		220	49	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Naphthalene	<43		43	6.7	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Nitrobenzene	<43		43	11	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
N-Nitrosodi-n-propylamine	<220		220	53	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
N-Nitrosodiphenylamine	<220		220	51	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Pentachlorophenol	<880		880	700	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Phenanthrene	<43		43	6.1	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Phenol	<220		220	97	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
<b>Pyrene</b>	<b>20</b>	<b>J</b>	43	8.7	ug/Kg	☼	10/11/14 11:34	10/19/14 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137				10/11/14 11:34	10/19/14 20:28	1
2-Fluorobiphenyl	38		25 - 119				10/11/14 11:34	10/19/14 20:28	1
2-Fluorophenol	45		25 - 110				10/11/14 11:34	10/19/14 20:28	1
Nitrobenzene-d5	36		25 - 115				10/11/14 11:34	10/19/14 20:28	1
Phenol-d5	37		31 - 110				10/11/14 11:34	10/19/14 20:28	1
Terphenyl-d14	96		36 - 134				10/11/14 11:34	10/19/14 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/14/14 23:54	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		10/14/14 08:25	10/14/14 23:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/14/14 23:54	1
<b>Cadmium</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0020	mg/L		10/14/14 08:25	10/14/14 23:54	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/14/14 23:54	1
<b>Cobalt</b>	<b>0.052</b>		0.025	0.010	mg/L		10/14/14 08:25	10/14/14 23:54	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/14/14 23:54	1
<b>Iron</b>	<b>0.74</b>		0.20	0.20	mg/L		10/14/14 08:25	10/14/14 23:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/14/14 08:25	10/14/14 23:54	1
<b>Manganese</b>	<b>21</b>		0.25	0.10	mg/L		10/14/14 08:25	10/15/14 22:53	10
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		10/14/14 08:25	10/14/14 23:54	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/14/14 23:54	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/14/14 23:54	1
<b>Zinc</b>	<b>0.79</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/14/14 23:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.052</b>		0.050	0.010	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Beryllium</b>	<b>0.0044</b>		0.0040	0.0040	mg/L		10/14/14 09:15	10/15/14 07:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Cobalt</b>	<b>0.048</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:13	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:13	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/15/14 07:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(0-5)-093014**

**Lab Sample ID: 500-85172-1**

Date Collected: 09/30/14 08:50

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/15/14 07:13	1
Zinc	0.36	B	0.10	0.020	mg/L		10/14/14 09:15	10/15/14 07:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.54	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Arsenic	7.4		0.67	0.13	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Barium	79	B	0.67	0.071	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Beryllium	0.71		0.27	0.053	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Cadmium	0.29		0.13	0.017	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Calcium	11000	B	13	3.6	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Chromium	16		0.67	0.077	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Cobalt	9.2		0.33	0.067	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Copper	17	B	0.67	0.13	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Iron	17000		13	5.5	mg/Kg	☼	10/16/14 09:30	10/21/14 23:13	1
Lead	25		0.33	0.099	mg/Kg	☼	10/16/14 09:30	10/23/14 12:22	1
Magnesium	7700	B	6.7	1.4	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Manganese	400	B	0.67	0.13	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Nickel	22	B	0.67	0.13	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Potassium	1800		33	2.0	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Selenium	0.36	J	0.67	0.24	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Sodium	2600		67	8.9	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Thallium	<0.67		0.67	0.28	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Vanadium	21		0.33	0.049	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1
Zinc	84	B	1.3	0.27	mg/Kg	☼	10/16/14 09:30	10/19/14 11:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 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	0.20	ug/L		10/15/14 12:30	10/16/14 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	41		21	8.3	ug/Kg	☼	10/10/14 11:30	10/13/14 15:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			10/13/14 19:35	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(5-10)-093014**

**Lab Sample ID: 500-85172-2**

**Date Collected: 09/30/14 08:55**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 80.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>33</b>		6.2	2.7	ug/Kg	☼		10/10/14 23:14	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		10/10/14 23:14	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 23:14	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/10/14 23:14	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/10/14 23:14	1
Carbon disulfide	<6.2		6.2	0.93	ug/Kg	☼		10/10/14 23:14	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 23:14	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/10/14 23:14	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		10/10/14 23:14	1
Chloroform	<6.2		6.2	0.72	ug/Kg	☼		10/10/14 23:14	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/10/14 23:14	1
cis-1,2-Dichloroethene	<6.2		6.2	0.88	ug/Kg	☼		10/10/14 23:14	1
cis-1,3-Dichloropropene	<6.2		6.2	0.82	ug/Kg	☼		10/10/14 23:14	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 23:14	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		10/10/14 23:14	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/10/14 23:14	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/10/14 23:14	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		10/10/14 23:14	1
1,3-Dichloropropene, Total	<6.2		6.2	0.82	ug/Kg	☼		10/10/14 23:14	1
Ethylbenzene	<6.2		6.2	1.3	ug/Kg	☼		10/10/14 23:14	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/10/14 23:14	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		10/10/14 23:14	1
<b>Methyl Ethyl Ketone</b>	<b>3.8 J</b>		6.2	2.3	ug/Kg	☼		10/10/14 23:14	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/10/14 23:14	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/10/14 23:14	1
Styrene	<6.2		6.2	0.82	ug/Kg	☼		10/10/14 23:14	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.3	ug/Kg	☼		10/10/14 23:14	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		10/10/14 23:14	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		10/10/14 23:14	1
trans-1,2-Dichloroethene	<6.2		6.2	0.86	ug/Kg	☼		10/10/14 23:14	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/10/14 23:14	1
1,1,1-Trichloroethane	<6.2		6.2	0.93	ug/Kg	☼		10/10/14 23:14	1
1,1,2-Trichloroethane	<6.2		6.2	0.85	ug/Kg	☼		10/10/14 23:14	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/10/14 23:14	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/10/14 23:14	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/10/14 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		10/10/14 23:14	1
Dibromofluoromethane	97		75 - 120		10/10/14 23:14	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		10/10/14 23:14	1
Toluene-d8 (Surr)	100		75 - 122		10/10/14 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(5-10)-093014**

**Lab Sample ID: 500-85172-2**

**Date Collected: 09/30/14 08:55**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	94	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2,4-Dichlorophenol	<410		410	98	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2,4-Dinitrophenol	<830	*	830	730	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2,6-Dinitrotoluene	<210		210	81	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2-Methylnaphthalene	<41		41	7.6	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2-Methylphenol	<210		210	66	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
2-Nitrophenol	<410		410	97	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
3,3'-Dichlorobenzidine	<210		210	58	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
4,6-Dinitro-2-methylphenol	<410		410	330	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
4-Chloroaniline	<830		830	190	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
4-Nitrophenol	<830		830	390	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Anthracene	<41		41	6.9	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Benzo[a]anthracene	<41		41	5.5	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Benzo[a]pyrene	<41		41	8.0	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Benzo[b]fluoranthene	<41		41	8.9	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Carbazole	<210		210	110	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Chrysene	<41		41	11	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Dibenz(a,h)anthracene	<41		41	8.0	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Dibenzofuran	<210		210	48	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Fluoranthene	<41		41	7.6	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Fluorene	<41		41	5.8	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Hexachlorobenzene	<83		83	9.5	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Hexachlorocyclopentadiene	<830		830	240	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Hexachloroethane	<210		210	63	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(5-10)-093014**

**Lab Sample ID: 500-85172-2**

**Date Collected: 09/30/14 08:55**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<41		41	11	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Isophorone	<210		210	46	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Naphthalene	<41		41	6.3	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Nitrobenzene	<41		41	10	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Pentachlorophenol	<830		830	660	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Phenanthrene	<41		41	5.7	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Phenol	<210		210	91	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Pyrene	<41		41	8.2	ug/Kg	☼	10/11/14 11:34	10/19/14 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137				10/11/14 11:34	10/19/14 20:46	1
2-Fluorobiphenyl	45		25 - 119				10/11/14 11:34	10/19/14 20:46	1
2-Fluorophenol	57		25 - 110				10/11/14 11:34	10/19/14 20:46	1
Nitrobenzene-d5	47		25 - 115				10/11/14 11:34	10/19/14 20:46	1
Phenol-d5	44		31 - 110				10/11/14 11:34	10/19/14 20:46	1
Terphenyl-d14	101		36 - 134				10/11/14 11:34	10/19/14 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/15/14 00:15	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 00:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 00:15	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:15	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:15	1
Copper	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:15	1
Iron	<0.20		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 00:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 00:15	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:15	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:15	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 00:15	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:15	1
<b>Zinc</b>	<b>0.21</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 00:15	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		10/14/14 09:15	10/15/14 07:19	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/15/14 07:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/15/14 07:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/15/14 07:19	1
<b>Chromium</b>	<b>0.046</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:19	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:19	1
<b>Copper</b>	<b>0.10</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:19	1
<b>Iron</b>	<b>33</b>		0.20	0.20	mg/L		10/14/14 09:15	10/15/14 07:19	1
<b>Lead</b>	<b>0.035</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/15/14 07:19	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:19	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:19	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/15/14 07:19	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(5-10)-093014**

**Lab Sample ID: 500-85172-2**

Date Collected: 09/30/14 08:55

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/15/14 07:19	1
<b>Zinc</b>	<b>0.19</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 09:15	10/15/14 07:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Arsenic</b>	<b>7.1</b>		0.58	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Barium</b>	<b>65</b>	<b>B</b>	0.58	0.062	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Beryllium</b>	<b>0.75</b>		0.23	0.046	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Cadmium</b>	<b>0.14</b>		0.12	0.015	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Calcium</b>	<b>2400</b>	<b>B</b>	12	3.1	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Chromium</b>	<b>20</b>		0.58	0.067	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Cobalt</b>	<b>14</b>		0.29	0.058	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Copper</b>	<b>21</b>	<b>B</b>	0.58	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Iron</b>	<b>21000</b>		12	4.7	mg/Kg	☼	10/16/14 09:30	10/21/14 23:25	1
<b>Lead</b>	<b>15</b>		0.29	0.086	mg/Kg	☼	10/16/14 09:30	10/23/14 12:29	1
<b>Magnesium</b>	<b>4400</b>	<b>B</b>	5.8	1.2	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Manganese</b>	<b>460</b>	<b>B</b>	0.58	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Nickel</b>	<b>34</b>	<b>B</b>	0.58	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Potassium</b>	<b>2100</b>		29	1.7	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Selenium</b>	<b>0.37</b>	<b>J</b>	0.58	0.20	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Sodium</b>	<b>760</b>		58	7.7	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Vanadium</b>	<b>23</b>		0.29	0.043	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1
<b>Zinc</b>	<b>77</b>	<b>B</b>	1.2	0.23	mg/Kg	☼	10/16/14 09:30	10/19/14 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:25	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>36</b>		20	7.7	ug/Kg	☼	10/10/14 11:30	10/13/14 15:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.26</b>		0.200	0.200	SU			10/13/14 19:44	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(10-15)-093014**

**Lab Sample ID: 500-85172-3**

**Date Collected: 09/30/14 09:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 87.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>12</b>		5.7	2.5	ug/Kg	☼		10/11/14 00:26	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		10/11/14 00:26	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	☼		10/11/14 00:26	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		10/11/14 00:26	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		10/11/14 00:26	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		10/11/14 00:26	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		10/11/14 00:26	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		10/11/14 00:26	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		10/11/14 00:26	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		10/11/14 00:26	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		10/11/14 00:26	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		10/11/14 00:26	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		10/11/14 00:26	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	☼		10/11/14 00:26	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		10/11/14 00:26	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		10/11/14 00:26	1
1,1-Dichloroethene	<5.7		5.7	0.92	ug/Kg	☼		10/11/14 00:26	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		10/11/14 00:26	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		10/11/14 00:26	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		10/11/14 00:26	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		10/11/14 00:26	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		10/11/14 00:26	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		10/11/14 00:26	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		10/11/14 00:26	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	☼		10/11/14 00:26	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		10/11/14 00:26	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		10/11/14 00:26	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		10/11/14 00:26	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		10/11/14 00:26	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		10/11/14 00:26	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		10/11/14 00:26	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		10/11/14 00:26	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		10/11/14 00:26	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	☼		10/11/14 00:26	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		10/11/14 00:26	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		10/11/14 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/11/14 00:26	1
Dibromofluoromethane	105		75 - 120		10/11/14 00:26	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		10/11/14 00:26	1
Toluene-d8 (Surr)	104		75 - 122		10/11/14 00:26	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	☼	10/11/14 11:34	10/19/14 21:03	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(10-15)-093014**

**Lab Sample ID: 500-85172-3**

**Date Collected: 09/30/14 09:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 87.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2,4-Dinitrophenol	<760 *		760	660	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Anthracene	<37		37	6.3	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
<b>Benzo[g,h,i]perylene</b>	<b>42</b>		37	12	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Carbazole	<190		190	97	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Chrysene	<37		37	10	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Dibenzofuran	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(10-15)-093014**

**Lab Sample ID: 500-85172-3**

**Date Collected: 09/30/14 09:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 87.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.8	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Isophorone	<190		190	42	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Phenanthrene	<37		37	5.3	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Phenol	<190		190	84	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
<b>Pyrene</b>	<b>14</b>	<b>J</b>	37	7.5	ug/Kg	☼	10/11/14 11:34	10/19/14 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	44		35 - 137				10/11/14 11:34	10/19/14 21:03	1
2-Fluorobiphenyl	46		25 - 119				10/11/14 11:34	10/19/14 21:03	1
2-Fluorophenol	60		25 - 110				10/11/14 11:34	10/19/14 21:03	1
Nitrobenzene-d5	48		25 - 115				10/11/14 11:34	10/19/14 21:03	1
Phenol-d5	44		31 - 110				10/11/14 11:34	10/19/14 21:03	1
Terphenyl-d14	126		36 - 134				10/11/14 11:34	10/19/14 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 00:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Cadmium</b>	<b>0.0045</b>	<b>J</b>	0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 00:20	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Cobalt</b>	<b>0.029</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Copper</b>	<b>0.080</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Iron</b>	<b>0.28</b>		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Lead</b>	<b>0.0084</b>		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Manganese</b>	<b>4.4</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:20	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 00:20	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:20	1
<b>Zinc</b>	<b>0.30</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 00:20	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		10/14/14 09:15	10/15/14 07:25	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/15/14 07:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/15/14 07:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/15/14 07:25	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:25	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:25	1
<b>Copper</b>	<b>0.049</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:25	1
<b>Iron</b>	<b>8.0</b>		0.20	0.20	mg/L		10/14/14 09:15	10/15/14 07:25	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/15/14 07:25	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:25	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/15/14 07:25	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/15/14 07:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RS-2(10-15)-093014**

**Lab Sample ID: 500-85172-3**

Date Collected: 09/30/14 09:00

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/15/14 07:25	1
<b>Zinc</b>	<b>0.089</b>	<b>J B</b>	0.10	0.020	mg/L		10/14/14 09:15	10/15/14 07:25	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	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Arsenic</b>	<b>5.2</b>		0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Barium</b>	<b>32</b>	<b>B</b>	0.56	0.059	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Beryllium</b>	<b>0.48</b>		0.22	0.044	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Cadmium</b>	<b>0.15</b>		0.11	0.014	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Calcium</b>	<b>97000</b>		110	30	mg/Kg	☼	10/16/14 09:30	10/21/14 23:34	10
<b>Chromium</b>	<b>14</b>		0.56	0.064	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Cobalt</b>	<b>7.8</b>		0.28	0.056	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Copper</b>	<b>14</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Iron</b>	<b>14000</b>		11	4.6	mg/Kg	☼	10/16/14 09:30	10/21/14 23:30	1
<b>Lead</b>	<b>7.9</b>		0.28	0.083	mg/Kg	☼	10/16/14 09:30	10/23/14 12:35	1
<b>Magnesium</b>	<b>44000</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Manganese</b>	<b>330</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Nickel</b>	<b>22</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Potassium</b>	<b>2000</b>		28	1.7	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.56	0.20	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Sodium</b>	<b>290</b>		56	7.4	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.56	0.23	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Vanadium</b>	<b>16</b>		0.28	0.041	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1
<b>Zinc</b>	<b>58</b>	<b>B</b>	1.1	0.22	mg/Kg	☼	10/16/14 09:30	10/19/14 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>22</b>		17	6.8	ug/Kg	☼	10/10/14 11:30	10/13/14 15:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.57</b>		0.200	0.200	SU			10/13/14 19:53	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.
X	Surrogate is outside control limits

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

## 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 ENVIRONMENTAL

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



500-85172 COC

Report To (optional)  
Contact: Weston Solutions  
Company: S. Babusukumar  
Address: 300 Plaza Circle, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7254  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85172  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 2  
Temperature °C of Cooler: 2/1/2014

Client		Client Project #		Preservative		Parameter					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
<u>Weston Solutions</u>		<u>02056-013.090.0030</u>		<u>7</u>							
Project Name		Lab Project #		Matrix							
<u>1001090-Orland Park, IL</u>											
Project Location/State		Lab PM		# of Containers							
<u>Orland Park, IL</u>		<u>D. Wright</u>									
Sampler		Sampling		Matrix							
<u>M. Bohony-Skubic</u>		Date Time									
Lab ID	MS/MSD	Sample ID				<u>VOCs</u>	<u>SVOCS</u>	<u>TOTAL METALS</u>	<u>TEHP/SPLP Metals</u>	<u>PH</u>	
<u>1</u>		<u>RS-2(0-5)-093014</u>	<u>9-30-14</u>	<u>0850</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>RS-2(5-10)-093014</u>		<u>0855</u>	<u>2 S</u>						
<u>3</u>		<u>RS-2(10-15)-093014</u>		<u>0900</u>	<u>2 S</u>						
<u>4</u>		<u>RS-1(0-5)-093014</u>		<u>0935</u>	<u>2 S</u>						
<u>5</u>		<u>RS-1(5-10)-093014</u>		<u>0940</u>	<u>2 S</u>						
<u>6</u>		<u>RS-1(5-10)-093014D</u>		<u>0940</u>	<u>2 S</u>						
<u>7</u>		<u>RS-1(10-15)-093014</u>		<u>0950</u>	<u>2 S</u>						
<u>8</u>		<u>RT2-2(0-5)-093014</u>		<u>1020</u>	<u>2 S</u>						
<u>9</u>		<u>RT2-2(5-10)-093014</u>		<u>1025</u>	<u>2 S</u>						
<u>10</u>		<u>RT2-1(0-5)-093014</u>	<u>9-30-14</u>	<u>1055</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Standard Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>David Wilkins</u> Company <u>Weston</u> Date <u>9-30-14</u> Time <u>1528</u>	Received By <u>David Wilkins</u> Company <u>TA</u> Date <u>9/30/14</u> Time <u>1528</u>
Relinquished By <u>David Wilkins</u> Company <u>TA</u> Date <u>9/30/14</u> Time <u>1610</u>	Received By <u>David Wilkins</u> Company <u>TA</u> Date <u>10/1/14</u> Time <u>0800</u>

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

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

Client Comments:

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 Inc  
Address: 300 Plaza Circle Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7234  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85172  
Chain of Custody Number:  
Page 2 of 2  
Temperature °C of Cooler: 21/2.4

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Weston Solutions				7	7	7	7	7			
Project Name		Lab Project #		Sampling		# of Containers	Matrix	Comments			
IDOT 090 - orland Park, IL				Date	Time						
Project Location/State		Lab PM									
Orland Park, IL		D. Wright									
Sampler											
M. Doherty-Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TURBIDITY	PH
11		RS-2(5-10)-093014	9-30-14	1058	2	S	X	X	X	X	X
12		MS-1(0-5)-093014		1135	2	S					
13		MS-2(5-10)-093014		1140	2	S					
14		MS-2(0-5)-093014		1200	2	S					
15		MS-2(5-10)-093014		1205	2	S					
16		MS-3(0-5)-093014		1235	2	S					
17		MS-3(5-10)-093014	9-30-14	1240	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>David Phillips</u> Company <u>Weston</u>	Date <u>9-30-14</u>	Time <u>1524</u>	Received By <u>David Phillips</u> Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>1528</u>
Relinquished By <u>David Phillips</u> Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>1610</u>	Received By <u>Sherrill</u> Company <u>TA-CAT</u>	Date <u>9/10/14</u>	Time <u>0800</u>
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier: TA  
Shipped:  
Hand Delivered:

Matrix Key

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

Client Comments:

Lab Comments:



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: FAU 297: US 6 (Southwest Hwy) at 179th St Office Phone Number, if available: \_\_\_\_\_

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

111811 to 11815 Brook Hill Court, 11828 to 11915 Dunree Lane (north side of Brook Hill Drive and Will Cook Road)

City: Orland Park 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: 41.5638588 Longitude: -87.90507379  
(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: FAU 297: US 6 (Southwest Hwy) at 179th St

Latitude: 41.5638588 Longitude: -87.90507379

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):

LOCATION RT2-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2532-4. 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: 500-85172-1.

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

I, Kurt T. Fischer 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

Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

11/18/14

Date:



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

**Summary Table of ISGS Site No. 2532-4**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	RT2-2(0-5)-093014	RT2-2(5-10)-093014	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/30/2014	9/30/2014	
Location ID	RT2-2	RT2-2	
Depth	0 - 5	5 - 10	
ISGS Site Number	2532-4	2532-4	
Parameter			
Laboratory pH (s.u.)	8.1	7.75	<6.25, >9.0
<b>VOCs (ug/kg)</b>	None Detected		
<b>SVOCs (ug/kg)</b>			
Phenanthrene	ND	14 J	---
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	7.6	9.1	11.3 / 13
Barium, Total	47 B	49 B	1500
Beryllium, Total	0.69	0.53	22
Cadmium, Total	0.17	0.14	5.2
Calcium, Total	25000 B	42000	---
Chromium, Total	19	13	21
Cobalt, Total	16	15	20
Copper, Total	18 B	20 B	2900
Iron, Total	19000	21000	15000 / 15900
Lead, Total	12	17	107
Magnesium, Total	18000 B	21000 B	325000
Manganese, Total	690 B	610 B	630 / 636
Mercury, Total	6.50E-02	0.029	0.89
Nickel, Total	37 B	26 B	100
Potassium, Total	2800	1900	---
Selenium, Total	0.36 J	0.56	1.3
Silver, Total	ND	0.1 J	4.4
Sodium, Total	340	150	---
Thallium, Total	0.58	0.79	2.6
Vanadium, Total	17	13	550
Zinc, Total	66 B	81 B	5100
<b>TCLP Metals (mg/l)</b>			
Barium, TCLP	0.25 J	0.34 J	2
Cadmium, TCLP	ND	0.0024 J	0.005
Cobalt, TCLP	ND	0.021 J	1
Copper, TCLP	0.018 J	0.034	0.65
Iron, TCLP	0.32	ND	5
Manganese, TCLP	1.5 J+	2 J+	0.15
Nickel, TCLP	0.015 J	0.037	0.1
<b>SPLP Metals (mg/l)</b>			
Barium, SPLP	0.11 J	0.05 J	2
Chromium, SPLP	0.011 J	ND	0.1
Copper, SPLP	0.035	0.07	0.65
Iron, SPLP	6.3	2.6	5
Lead, SPLP	0.012	0.022	0.0075
Manganese, SPLP	0.14	0.037	0.15
Nickel, SPLP	0.011 J	ND	0.1
Zinc, SPLP	ND	0.12 B	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.

B - Constituent detected in investigative and blank sample.

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: 500-85172-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/23/2014 4:19:54 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.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(0-5)-093014**

**Lab Sample ID: 500-85172-8**

**Date Collected: 09/30/14 10:20**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 85.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	*		10/11/14 02:26	1
Benzene	<5.9		5.9	0.81	ug/Kg	*		10/11/14 02:26	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	*		10/11/14 02:26	1
Bromoform	<5.9		5.9	1.4	ug/Kg	*		10/11/14 02:26	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	*		10/11/14 02:26	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	*		10/11/14 02:26	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	*		10/11/14 02:26	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	*		10/11/14 02:26	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	*		10/11/14 02:26	1
Chloroform	<5.9		5.9	0.68	ug/Kg	*		10/11/14 02:26	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	*		10/11/14 02:26	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	*		10/11/14 02:26	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	*		10/11/14 02:26	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	*		10/11/14 02:26	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	*		10/11/14 02:26	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	*		10/11/14 02:26	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	*		10/11/14 02:26	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	*		10/11/14 02:26	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	*		10/11/14 02:26	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	*		10/11/14 02:26	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	*		10/11/14 02:26	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	*		10/11/14 02:26	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	*		10/11/14 02:26	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	*		10/11/14 02:26	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	*		10/11/14 02:26	1
Styrene	<5.9		5.9	0.77	ug/Kg	*		10/11/14 02:26	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	*		10/11/14 02:26	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	*		10/11/14 02:26	1
Toluene	<5.9		5.9	0.82	ug/Kg	*		10/11/14 02:26	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	*		10/11/14 02:26	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	*		10/11/14 02:26	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	*		10/11/14 02:26	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	*		10/11/14 02:26	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	*		10/11/14 02:26	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	*		10/11/14 02:26	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		10/11/14 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/11/14 02:26	1
Dibromofluoromethane	105		75 - 120		10/11/14 02:26	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		10/11/14 02:26	1
Toluene-d8 (Surr)	97		75 - 122		10/11/14 02:26	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	*	10/11/14 11:34	10/19/14 22:28	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(0-5)-093014**

**Lab Sample ID: 500-85172-8**

**Date Collected: 09/30/14 10:20**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 85.0**

**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	☼	10/11/14 11:34	10/19/14 22:28	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2,4-Dinitrophenol	<780 *		780	680	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Acenaphthene	<38		38	7.0	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Anthracene	<38		38	6.5	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Carbazole	<190		190	100	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Chrysene	<38		38	11	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/11/14 11:34	10/19/14 22:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(0-5)-093014**

**Lab Sample ID: 500-85172-8**

**Date Collected: 09/30/14 10:20**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 85.0**

**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	*	10/11/14 11:34	10/19/14 22:28	1
Isophorone	<190		190	43	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
Naphthalene	<38		38	5.9	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
Nitrobenzene	<38		38	9.7	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
Pentachlorophenol	<780		780	620	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
Phenanthrene	<38		38	5.4	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
Phenol	<190		190	86	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
Pyrene	<38		38	7.7	ug/Kg	*	10/11/14 11:34	10/19/14 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				10/11/14 11:34	10/19/14 22:28	1
2-Fluorobiphenyl	53		25 - 119				10/11/14 11:34	10/19/14 22:28	1
2-Fluorophenol	69		25 - 110				10/11/14 11:34	10/19/14 22:28	1
Nitrobenzene-d5	57		25 - 115				10/11/14 11:34	10/19/14 22:28	1
Phenol-d5	49		31 - 110				10/11/14 11:34	10/19/14 22:28	1
Terphenyl-d14	83		36 - 134				10/11/14 11:34	10/19/14 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/15/14 00:53	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 00:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 00:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 00:53	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:53	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:53	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:53	1
<b>Iron</b>	<b>0.32</b>		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 00:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 00:53	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:53	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:53	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 00:53	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:53	1
<b>Zinc</b>	<b>0.062</b>	<b>J B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 00:53	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		10/14/14 09:15	10/15/14 08:11	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/15/14 08:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/15/14 08:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/15/14 08:11	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:11	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:11	1
<b>Copper</b>	<b>0.035</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:11	1
<b>Iron</b>	<b>6.3</b>		0.20	0.20	mg/L		10/14/14 09:15	10/15/14 08:11	1
<b>Lead</b>	<b>0.012</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/15/14 08:11	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:11	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:11	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/15/14 08:11	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(0-5)-093014**

**Lab Sample ID: 500-85172-8**

Date Collected: 09/30/14 10:20

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/15/14 08:11	1
Zinc	0.072	J B	0.10	0.020	mg/L		10/14/14 09:15	10/15/14 08:11	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Arsenic	7.6		0.58	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Barium	47	B	0.58	0.062	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Beryllium	0.69		0.23	0.046	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Cadmium	0.17		0.12	0.015	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Calcium	25000	B	12	3.1	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Chromium	19		0.58	0.067	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Cobalt	16		0.29	0.058	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Copper	18	B	0.58	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Iron	19000		12	4.8	mg/Kg	☼	10/16/14 09:30	10/22/14 00:04	1
Lead	12		0.29	0.086	mg/Kg	☼	10/16/14 09:30	10/23/14 13:27	1
Magnesium	18000	B	5.8	1.2	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Manganese	690	B	0.58	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Nickel	37	B	0.58	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Potassium	2800		29	1.7	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Selenium	0.36	J	0.58	0.21	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Sodium	340		58	7.8	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Thallium	0.58		0.58	0.24	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Vanadium	17		0.29	0.043	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1
Zinc	66	B	1.2	0.23	mg/Kg	☼	10/16/14 09:30	10/19/14 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:44	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	65		18	6.9	ug/Kg	☼	10/10/14 11:30	10/13/14 15:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU			10/13/14 20:39	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(5-10)-093014**

**Lab Sample ID: 500-85172-9**

**Date Collected: 09/30/14 10:25**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 86.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		10/11/14 02:50	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		10/11/14 02:50	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		10/11/14 02:50	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/11/14 02:50	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		10/11/14 02:50	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		10/11/14 02:50	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		10/11/14 02:50	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		10/11/14 02:50	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		10/11/14 02:50	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		10/11/14 02:50	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 02:50	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		10/11/14 02:50	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		10/11/14 02:50	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/11/14 02:50	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		10/11/14 02:50	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/11/14 02:50	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		10/11/14 02:50	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		10/11/14 02:50	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		10/11/14 02:50	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 02:50	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/11/14 02:50	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/11/14 02:50	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/11/14 02:50	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/11/14 02:50	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		10/11/14 02:50	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		10/11/14 02:50	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 02:50	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		10/11/14 02:50	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		10/11/14 02:50	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		10/11/14 02:50	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/11/14 02:50	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/11/14 02:50	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		10/11/14 02:50	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		10/11/14 02:50	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 02:50	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		10/11/14 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		10/11/14 02:50	1
Dibromofluoromethane	104		75 - 120		10/11/14 02:50	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		10/11/14 02:50	1
Toluene-d8 (Surr)	101		75 - 122		10/11/14 02:50	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	☼	10/11/14 11:34	10/19/14 22:46	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(5-10)-093014**

**Lab Sample ID: 500-85172-9**

**Date Collected: 09/30/14 10:25**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 86.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2,4-Dinitrophenol	<770 *		770	670	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Anthracene	<38		38	6.4	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Carbazole	<190		190	98	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Chrysene	<38		38	10	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Hexachloroethane	<190		190	58	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(5-10)-093014**

**Lab Sample ID: 500-85172-9**

**Date Collected: 09/30/14 10:25**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 86.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Isophorone	<190		190	43	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
<b>Phenanthrene</b>	<b>14</b>	<b>J</b>	38	5.3	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Phenol	<190		190	85	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Pyrene	<38		38	7.6	ug/Kg	☼	10/11/14 11:34	10/19/14 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137				10/11/14 11:34	10/19/14 22:46	1
2-Fluorobiphenyl	50		25 - 119				10/11/14 11:34	10/19/14 22:46	1
2-Fluorophenol	57		25 - 110				10/11/14 11:34	10/19/14 22:46	1
Nitrobenzene-d5	50		25 - 115				10/11/14 11:34	10/19/14 22:46	1
Phenol-d5	46		31 - 110				10/11/14 11:34	10/19/14 22:46	1
Terphenyl-d14	131		36 - 134				10/11/14 11:34	10/19/14 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/15/14 00:58	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 00:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 00:58	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 00:58	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:58	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:58	1
<b>Copper</b>	<b>0.034</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:58	1
Iron	<0.20		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 00:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 00:58	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:58	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:58	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 00:58	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 00:58	1
<b>Zinc</b>	<b>0.068</b>	<b>J B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 00:58	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		10/14/14 09:15	10/15/14 08:18	1
<b>Barium</b>	<b>0.050</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/15/14 08:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/15/14 08:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/15/14 08:18	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:18	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:18	1
<b>Copper</b>	<b>0.070</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:18	1
<b>Iron</b>	<b>2.6</b>		0.20	0.20	mg/L		10/14/14 09:15	10/15/14 08:18	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/15/14 08:18	1
<b>Manganese</b>	<b>0.037</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:18	1
Nickel	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:18	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/15/14 08:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: RT2-2(5-10)-093014**

**Lab Sample ID: 500-85172-9**

Date Collected: 09/30/14 10:25

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/15/14 08:18	1
Zinc	0.12	B	0.10	0.020	mg/L		10/14/14 09:15	10/15/14 08:18	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	☼	10/16/14 09:30	10/19/14 11:41	1
Arsenic	9.1		0.53	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Barium	49	B	0.53	0.057	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Beryllium	0.53		0.21	0.043	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Cadmium	0.14		0.11	0.014	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Calcium	42000		110	29	mg/Kg	☼	10/16/14 09:30	10/22/14 00:21	10
Chromium	13		0.53	0.062	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Cobalt	15		0.27	0.053	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Copper	20	B	0.53	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Iron	21000		11	4.4	mg/Kg	☼	10/16/14 09:30	10/22/14 00:17	1
Lead	17		0.27	0.080	mg/Kg	☼	10/16/14 09:30	10/23/14 13:33	1
Magnesium	21000	B	5.3	1.1	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Manganese	610	B	0.53	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Nickel	26	B	0.53	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Potassium	1900		27	1.6	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Selenium	0.56		0.53	0.19	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Silver	0.10	J	0.27	0.019	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Sodium	150		53	7.2	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Thallium	0.79		0.53	0.23	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Vanadium	13		0.27	0.040	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1
Zinc	81	B	1.1	0.22	mg/Kg	☼	10/16/14 09:30	10/19/14 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:46	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	29		17	6.9	ug/Kg	☼	10/10/14 11:30	10/13/14 15:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75		0.200	0.200	SU			10/13/14 20:49	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.
X	Surrogate is outside control limits

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

## 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 ENVIRONMENTAL

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



500-85172 COC

Report To (optional)  
Contact: Weston Solutions  
Company: S. Babusukumar  
Address: 300 Plainville, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7254  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85172  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 2  
Temperature °C of Cooler: 2/1/2014

Client		Client Project #		Preservative		Parameter					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	
<u>Weston Solutions</u>		<u>02056-013.090.0030</u>		<u>7</u>								
Project Name		Lab Project #										
<u>1001090-Orland Park, IL</u>												
Project Location/State		Lab PM										
<u>Orland Park, IL</u>		<u>D. Wright</u>										
Sampler												
<u>M. Bohony-Skubic</u>												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCS	TOTAL METALS	TEHP/SPLP Metals	PH	Comments
			Date	Time								
<u>1</u>		<u>RS-2(0-5)-093014</u>	<u>9-30-14</u>	<u>0850</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>RS-2(5-10)-093014</u>		<u>0855</u>	<u>2</u>	<u>S</u>						
<u>3</u>		<u>RS-2(10-15)-093014</u>		<u>0900</u>	<u>2</u>	<u>S</u>						
<u>4</u>		<u>RS-1(0-5)-093014</u>		<u>0935</u>	<u>2</u>	<u>S</u>						
<u>5</u>		<u>RS-1(5-10)-093014</u>		<u>0940</u>	<u>2</u>	<u>S</u>						
<u>6</u>		<u>RS-1(5-10)-093014D</u>		<u>0940</u>	<u>2</u>	<u>S</u>						
<u>7</u>		<u>RS-1(10-15)-093014</u>		<u>0950</u>	<u>2</u>	<u>S</u>						
<u>8</u>		<u>RT2-2(0-5)-093014</u>		<u>1020</u>	<u>2</u>	<u>S</u>						
<u>9</u>		<u>RT2-2(5-10)-093014</u>		<u>1025</u>	<u>2</u>	<u>S</u>						
<u>10</u>		<u>RT2-1(0-5)-093014</u>	<u>9-30-14</u>	<u>1055</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  As Lab Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>David Wilkins</u> Company <u>Weston</u> Date <u>9-30-14</u> Time <u>1528</u>	Received By <u>David Wilkins</u> Company <u>TA</u> Date <u>9/30/14</u> Time <u>1528</u>
Relinquished By <u>David Wilkins</u> Company <u>TA</u> Date <u>9/30/14</u> Time <u>1610</u>	Received By <u>David Wilkins</u> Company <u>TA</u> Date <u>10/1/14</u> Time <u>0800</u>

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

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

Client Comments:

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 Inc  
Address: 300 Plaza Circle Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7234  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85172

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

Page 2 of 2

Temperature °C of Cooler: 21/2.4

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key		
Weston Solutions				7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Sampling		Parameter		Matrix		Comments		
IDOT 090 - orland Park, IL				Date	Time	# of Containers	Matrix	VOCs	SVOCs		TOTAL METALS	TURBID METALS
Project Location/State		Lab Project #		Sampling		Parameter		Matrix		Comments		
Orland Park, IL				Date	Time	# of Containers	Matrix	VOCs	SVOCs		TOTAL METALS	TURBID METALS
Sampler		Lab PM		Sampling		Parameter		Matrix		Comments		
M. Doherty-Skubic		D. Wright		Date	Time	# of Containers	Matrix	VOCs	SVOCs		TOTAL METALS	TURBID METALS
11	MS-2(5-10)-093014	9-30-14	1058	2	S	X	X	X	X	X		
12	MS-1(0-5)-093014		1135	2	S							
13	MS-2(5-10)-093014		1140	2	S							
14	MS-2(0-5)-093014		1200	2	S							
15	MS-2(5-10)-093014		1205	2	S							
16	MS-3(0-5)-093014		1235	2	S							
17	MS-3(5-10)-093014	9-30-14	1240	2	S	X	X	X	X	X		

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>David Phillips</u> Company <u>Weston</u>	Date <u>9-30-14</u>	Time <u>1524</u>	Received By <u>David Phillips</u> Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>1528</u>
Relinquished By <u>David Phillips</u> Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>1610</u>	Received By <u>Sherrill</u> Company <u>TA-CAT</u>	Date <u>9/10/14</u>	Time <u>0800</u>
Relinquished By	Date	Time	Received By	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



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: FAU 297: US 6 (Southwest Hwy) at 179th St Office Phone Number, if available: \_\_\_\_\_

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

Southeast corner of US 6 and 17th Street

City: Orland Park 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: 41.56398586 Longitude: -87.9046235  
(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: FAU 297: US 6 (Southwest Hwy) at 179th St

Latitude: 41.56398586 Longitude: -87.9046235

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 MS-1, MS-2, MS-3, MS-4, and MS-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2532-5. 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: 500-85172-1 and  
 TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-85173-1.

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

I, Kurt T. Fischer 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

Kurt T. Fischer P.G.

Printed Name:



11/18/14

Date:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

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

**Summary Table of ISGS Site No. 2532-5**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	MS-1(0-5)-093014	MS-1(5-10)-093014	MS-2(0-5)-093014	MS-2(5-10)-093014	MS-3(0-5)-093014	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	
Location ID	MS-1	MS-1	MS-2	MS-2	MS-3	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5	
ISGS Site Number	2532-5	2532-5	2532-5	2532-5	2532-5	
Parameter						
Laboratory pH (s.u.)	7.67	7.7	8.42	7.79	8.02	<6.25, >9.0
<b>VOCs (ug/kg)</b>						
Acetone	ND	10	ND	26	180	25000
Methyl ethyl ketone	ND	ND	ND	ND	36	---
<b>SVOCs (ug/kg)</b>						
Benzo(a)anthracene	ND	ND	ND	ND	8.7 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	37 J	ND	11 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	97 J	ND	20 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	150	ND	ND	---
Fluoranthene	ND	ND	ND	ND	17 J	3100000
Phenanthrene	ND	14 J	ND	ND	13 J	---
Pyrene	ND	ND	ND	ND	34 J	2300000
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	0.52 J	ND	ND	5
Arsenic, Total	12	11	4.5	7	6.1	11.3 / 13
Barium, Total	52 B	22 B	38 B	35 B	60 B	1500
Beryllium, Total	0.76	0.5	0.43	0.59	0.59	22
Cadmium, Total	0.062 J	0.16	0.26	0.17	0.21	5.2
Calcium, Total	1200 B	43000	91000	2400 B	14000 B	---
Chromium, Total	20	12	10	16	15	21
Cobalt, Total	6.4	15	5.4	8.5	11	20
Copper, Total	23 B	29 B	12 B	18 B	15 B	2900
Iron, Total	27000	16000	9700	19000	15000	15000 / 15900
Lead, Total	17	13	66	13	22	107
Magnesium, Total	3100 B	18000 B	47000 B	3700 B	8300 B	325000
Manganese, Total	240 B	270 B	240 B	250 B	460 B	630 / 636
Mercury, Total	0.042	0.025	0.031	0.036	0.031	0.89
Nickel, Total	22 B	35 B	14 B	27 B	19 B	100
Potassium, Total	1700	1600	1200	1800	1400	---
Selenium, Total	0.45 J	0.39 J	0.38 J	ND	0.45 J	1.3
Silver, Total	ND	0.086 J	ND	0.035 J	0.029 J	4.4
Sodium, Total	610	220	700	890	1400	---
Thallium, Total	ND	0.89	ND	0.4 J	0.27 J	2.6
Vanadium, Total	25	14	12	18	19	550
Zinc, Total	58 B	88 B	56 B	61 B	61 B	5100
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	0.015 J	ND	ND	0.05
Barium, TCLP	0.31 J	0.46 J	0.61	0.26 J	0.54	2
Cadmium, TCLP	ND	0.002 J	0.0035 J	0.0025 J	0.0021 J	0.005
Cobalt, TCLP	ND	0.028	0.026	0.015 J	0.031	1
Copper, TCLP	0.13	0.037	0.068	0.083	0.1	0.65
Iron, TCLP	0.73	ND	0.23	0.33	ND	5
Lead, TCLP	0.013	ND	4.9	0.013	0.039	0.0075
Manganese, TCLP	1 J+	2 J+	9.4 J+	4.8 J+	6.6 J+	0.15
Nickel, TCLP	0.023 J	0.057	0.026	0.045	0.013 J	0.1
Zinc, TCLP	ND	ND	ND	ND	ND	5
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.051	ND	ND	ND	0.036 J	0.05
Barium, SPLP	0.5	0.096 J	0.19 J	0.1 J	0.48 J	2
Beryllium, SPLP	0.0043	ND	ND	ND	0.0044	0.004
Chromium, SPLP	0.12	0.014 J	0.016 J	0.017 J	0.1	0.1
Cobalt, SPLP	0.023 J	ND	ND	ND	0.041	1
Copper, SPLP	0.23	0.066	0.04	0.047	0.15	0.65
Iron, SPLP	140	6.7	16	13	120	5
Lead, SPLP	0.1	0.02	0.13	0.016	0.12	0.0075
Manganese, SPLP	0.84	0.14	0.55	0.36	0.79	0.15
Nickel, SPLP	0.16	0.014 J	0.017 J	0.014 J	0.11	0.1
Zinc, SPLP	0.52 B	0.12 B	ND	ND	0.41 B	5

**Summary Table of ISGS Site No. 2532-5**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, Cook County, Illinois**

Field Sample ID	MS-3(5-10)-093014	MS-4(0-5)-093014	MS-4(5-9)-093014	MS-6(0-5)-093014	MS-6(5-8)-093014	Soil Reference Concentrations <sup>A</sup>
Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	
Location ID	MS-3	MS-4	MS-4	MS-6	MS-6	
Depth	5 - 10	0 - 5	5 - 9	0 - 5	5 - 8	
ISGS Site Number	2532-5	2532-5	2532-5	2532-5	2532-5	
Parameter						
Laboratory pH (s.u.)	7.77	7.93	6.74	8.81	8.33	<6.25, >9.0
<b>VOCs (ug/kg)</b>						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
<b>SVOCs (ug/kg)</b>						
Benzo(a)anthracene	ND	ND	ND	ND	19 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	9.6 J	ND	ND	26 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	12 J	ND	ND	43	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	ND	29 J	---
Fluoranthene	ND	ND	ND	ND	35	3100000
Phenanthrene	ND	ND	ND	ND	22 J	---
Pyrene	9.7 J	ND	ND	ND	43	2300000
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	7.9	7.7	11	7.6	1.2 J	11.3 / 13
Barium, Total	53 B	75	57	63	3.6	1500
Beryllium, Total	0.72	0.49	0.59	0.56	0.28 J	22
Cadmium, Total	0.16	ND	0.37 J	ND	ND	5.2
Calcium, Total	3300 B	28000	1700	31000	140000	---
Chromium, Total	17	13	14	16	2.7 B	21
Cobalt, Total	7.8	8.3	5.9	7.8	1.6	20
Copper, Total	22 B	16	39	22	2.4 J	2900
Iron, Total	22000	17000	27000	18000	3300	15000 / 15900
Lead, Total	14	21 B	27 B	25 B	ND	107
Magnesium, Total	3600 B	19000	2700	20000	85000	325000
Manganese, Total	320 B	630	220	430	170	630 / 636
Mercury, Total	0.051	0.026	0.033	0.035	ND	0.89
Nickel, Total	25 B	13	23	18	3.1	100
Potassium, Total	1400	1600	1300	2300	470	---
Selenium, Total	0.27 J	ND	0.4 J	ND	ND	1.3
Silver, Total	0.037 J	ND	ND	ND	ND	4.4
Sodium, Total	1200	1100 B	1100 B	910 B	ND	---
Thallium, Total	ND	1.2	1.3	0.85	ND	2.6
Vanadium, Total	23	21	19	20	3.9	550
Zinc, Total	77 B	46 B	78 B	53 B	ND	5100
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.21 J	0.49 J	0.29 J	0.39 J	0.057 J	2
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Cobalt, TCLP	ND	ND	ND	ND	0.02 J	1
Copper, TCLP	0.021 J	ND	ND	ND	ND	0.65
Iron, TCLP	0.53	ND	ND	ND	0.42	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.9 J+	2	0.088	0.1	0.91	0.15
Nickel, TCLP	0.02 J	ND	ND	ND	0.022 J	0.1
Zinc, TCLP	ND	0.028 J	ND	0.14	ND	5
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	0.015 J	ND	0.024 J	ND	0.05
Barium, SPLP	0.076 J	0.29 J	0.11 J	0.4 J	ND	2
Beryllium, SPLP	ND	ND	ND	0.0043	ND	0.004
Chromium, SPLP	0.011 J	0.078	0.014 J	0.088	ND	0.1
Cobalt, SPLP	ND	0.012 J	ND	0.022 J	ND	1
Copper, SPLP	0.041	0.11	0.085	0.14	0.063	0.65
Iron, SPLP	3.1	72 J+	4.8 J+	85 J+	0.38 J+	5
Lead, SPLP	ND	ND	0.022 J+	0.1 J+	0.014 J+	0.0075
Manganese, SPLP	0.045	0.33	0.022 J	0.53	ND	0.15
Nickel, SPLP	ND	0.049	ND	0.082	ND	0.1
Zinc, SPLP	ND	ND	ND	ND	ND	5

**Summary Table of ISGS Site No. 2532-5**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 297: US Route 6 (Southwest Highway) at 179th Street and Brook Hill Drive**  
**Orland Park, 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.

B - Constituent detected in investigative and blank sample.

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: 500-85172-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/23/2014 4:19:54 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.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(0-5)-093014**

**Lab Sample ID: 500-85172-12**

**Date Collected: 09/30/14 11:35**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.7	ug/Kg	☼		10/11/14 04:02	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		10/11/14 04:02	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 04:02	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/11/14 04:02	1
Bromomethane	<6.1		6.1	1.9	ug/Kg	☼		10/11/14 04:02	1
Carbon disulfide	<6.1		6.1	0.92	ug/Kg	☼		10/11/14 04:02	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 04:02	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/11/14 04:02	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		10/11/14 04:02	1
Chloroform	<6.1		6.1	0.71	ug/Kg	☼		10/11/14 04:02	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/11/14 04:02	1
cis-1,2-Dichloroethene	<6.1		6.1	0.87	ug/Kg	☼		10/11/14 04:02	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		10/11/14 04:02	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 04:02	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		10/11/14 04:02	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/11/14 04:02	1
1,1,1-Dichloroethane	<6.1		6.1	0.99	ug/Kg	☼		10/11/14 04:02	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		10/11/14 04:02	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		10/11/14 04:02	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/11/14 04:02	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		10/11/14 04:02	1
Methylene Chloride	<6.1		6.1	1.7	ug/Kg	☼		10/11/14 04:02	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/11/14 04:02	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/11/14 04:02	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/11/14 04:02	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		10/11/14 04:02	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/11/14 04:02	1
Tetrachloroethene	<6.1		6.1	0.94	ug/Kg	☼		10/11/14 04:02	1
Toluene	<6.1		6.1	0.86	ug/Kg	☼		10/11/14 04:02	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		10/11/14 04:02	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 04:02	1
1,1,1-Trichloroethane	<6.1		6.1	0.92	ug/Kg	☼		10/11/14 04:02	1
1,1,2-Trichloroethane	<6.1		6.1	0.84	ug/Kg	☼		10/11/14 04:02	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/11/14 04:02	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/11/14 04:02	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/11/14 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		10/11/14 04:02	1
Dibromofluoromethane	102		75 - 120		10/11/14 04:02	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		10/11/14 04:02	1
Toluene-d8 (Surr)	97		75 - 122		10/11/14 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(0-5)-093014**

**Lab Sample ID: 500-85172-12**

**Date Collected: 09/30/14 11:35**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2,4-Dinitrophenol	<800 *		800	690	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Carbazole	<200		200	100	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Chrysene	<39		39	11	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Hexachlorobenzene	<80		80	9.1	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(0-5)-093014**

**Lab Sample ID: 500-85172-12**

**Date Collected: 09/30/14 11:35**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.5**

**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	<39		39	10	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Isophorone	<200		200	44	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Naphthalene	<39		39	6.1	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Phenol	<200		200	88	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Pyrene	<39		39	7.8	ug/Kg	☼	10/11/14 11:34	10/19/14 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		35 - 137				10/11/14 11:34	10/19/14 23:37	1
2-Fluorobiphenyl	37		25 - 119				10/11/14 11:34	10/19/14 23:37	1
2-Fluorophenol	54		25 - 110				10/11/14 11:34	10/19/14 23:37	1
Nitrobenzene-d5	42		25 - 115				10/11/14 11:34	10/19/14 23:37	1
Phenol-d5	37		31 - 110				10/11/14 11:34	10/19/14 23:37	1
Terphenyl-d14	132		36 - 134				10/11/14 11:34	10/19/14 23:37	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		10/14/14 08:25	10/15/14 01:13	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 01:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 01:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 01:13	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:13	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:13	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:13	1
<b>Iron</b>	<b>0.73</b>		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 01:13	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 01:13	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:13	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:13	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 01:13	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:13	1
<b>Zinc</b>	<b>0.15</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.051</b>		0.050	0.010	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Beryllium</b>	<b>0.0043</b>		0.0040	0.0040	mg/L		10/14/14 09:15	10/15/14 08:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Iron</b>	<b>140</b>		0.20	0.20	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Lead</b>	<b>0.10</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Manganese</b>	<b>0.84</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:36	1
<b>Nickel</b>	<b>0.16</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:36	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/15/14 08:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(0-5)-093014**

**Lab Sample ID: 500-85172-12**

Date Collected: 09/30/14 11:35

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/15/14 08:36	1
<b>Zinc</b>	<b>0.52</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 09:15	10/15/14 08:36	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Arsenic</b>	<b>12</b>		0.60	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Barium</b>	<b>52</b>	<b>B</b>	0.60	0.064	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Beryllium</b>	<b>0.76</b>		0.24	0.048	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Cadmium</b>	<b>0.062</b>	<b>J</b>	0.12	0.015	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Calcium</b>	<b>1200</b>	<b>B</b>	12	3.3	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Chromium</b>	<b>20</b>		0.60	0.070	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Cobalt</b>	<b>6.4</b>		0.30	0.060	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Copper</b>	<b>23</b>	<b>B</b>	0.60	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Iron</b>	<b>27000</b>		12	4.9	mg/Kg	☼	10/16/14 09:30	10/22/14 00:34	1
<b>Lead</b>	<b>17</b>		0.30	0.089	mg/Kg	☼	10/16/14 09:30	10/23/14 13:52	1
<b>Magnesium</b>	<b>3100</b>	<b>B</b>	6.0	1.2	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Manganese</b>	<b>240</b>	<b>B</b>	0.60	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Nickel</b>	<b>22</b>	<b>B</b>	0.60	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Potassium</b>	<b>1700</b>		30	1.8	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Selenium</b>	<b>0.45</b>	<b>J</b>	0.60	0.21	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Sodium</b>	<b>610</b>		60	8.0	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Vanadium</b>	<b>25</b>		0.30	0.044	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1
<b>Zinc</b>	<b>58</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	10/16/14 09:30	10/19/14 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:52	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>42</b>		19	7.6	ug/Kg	☼	10/10/14 11:30	10/13/14 15:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.67</b>		0.200	0.200	SU			10/13/14 21:25	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(5-10)-093014**

**Lab Sample ID: 500-85172-13**

Date Collected: 09/30/14 11:40

Matrix: Solid

Date Received: 10/01/14 08:00

Percent Solids: 86.2

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10		5.8	2.5	ug/Kg	☼		10/11/14 04:26	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		10/11/14 04:26	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/11/14 04:26	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/11/14 04:26	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		10/11/14 04:26	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		10/11/14 04:26	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		10/11/14 04:26	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		10/11/14 04:26	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		10/11/14 04:26	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		10/11/14 04:26	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 04:26	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		10/11/14 04:26	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		10/11/14 04:26	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/11/14 04:26	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		10/11/14 04:26	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/11/14 04:26	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		10/11/14 04:26	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		10/11/14 04:26	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		10/11/14 04:26	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 04:26	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/11/14 04:26	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/11/14 04:26	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/11/14 04:26	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/11/14 04:26	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		10/11/14 04:26	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		10/11/14 04:26	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 04:26	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		10/11/14 04:26	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		10/11/14 04:26	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		10/11/14 04:26	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/11/14 04:26	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		10/11/14 04:26	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		10/11/14 04:26	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		10/11/14 04:26	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/11/14 04:26	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/11/14 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122		10/11/14 04:26	1
Dibromofluoromethane	102		75 - 120		10/11/14 04:26	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/11/14 04:26	1
Toluene-d8 (Surr)	103		75 - 122		10/11/14 04:26	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	40	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(5-10)-093014**

**Lab Sample ID: 500-85172-13**

**Date Collected: 09/30/14 11:40**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2,4-Dinitrophenol	<760 *		760	660	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Anthracene	<37		37	6.3	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Carbazole	<190		190	97	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Chrysene	<37		37	10	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Dibenzofuran	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(5-10)-093014**

**Lab Sample ID: 500-85172-13**

**Date Collected: 09/30/14 11:40**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 86.2**

**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	<37		37	9.7	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Isophorone	<190		190	42	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
<b>Phenanthrene</b>	<b>14</b>	<b>J</b>	37	5.2	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Phenol	<190		190	83	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/11/14 11:34	10/20/14 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	23	X	35 - 137				10/11/14 11:34	10/20/14 23:07	1
2-Fluorobiphenyl	59		25 - 119				10/11/14 11:34	10/20/14 23:07	1
2-Fluorophenol	62		25 - 110				10/11/14 11:34	10/20/14 23:07	1
Nitrobenzene-d5	53		25 - 115				10/11/14 11:34	10/20/14 23:07	1
Phenol-d5	47		31 - 110				10/11/14 11:34	10/20/14 23:07	1
Terphenyl-d14	188	X	36 - 134				10/11/14 11:34	10/20/14 23:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/15/14 01:19	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 01:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 01:19	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 01:19	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:19	1
<b>Cobalt</b>	<b>0.028</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:19	1
<b>Copper</b>	<b>0.037</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:19	1
Iron	<0.20		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 01:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 01:19	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:19	1
<b>Nickel</b>	<b>0.057</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:19	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 01:19	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:19	1
<b>Zinc</b>	<b>0.081</b>	<b>J B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 01:19	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		10/14/14 09:15	10/15/14 08:43	1
<b>Barium</b>	<b>0.096</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/15/14 08:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/15/14 08:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/15/14 08:43	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:43	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:43	1
<b>Copper</b>	<b>0.066</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:43	1
<b>Iron</b>	<b>6.7</b>		0.20	0.20	mg/L		10/14/14 09:15	10/15/14 08:43	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/15/14 08:43	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:43	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/15/14 08:43	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/15/14 08:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-1(5-10)-093014**

**Lab Sample ID: 500-85172-13**

Date Collected: 09/30/14 11:40

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/15/14 08:43	1
Zinc	0.12	B	0.10	0.020	mg/L		10/14/14 09:15	10/15/14 08:43	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	☼	10/16/14 09:30	10/19/14 12:21	1
Arsenic	11		0.53	0.10	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Barium	22	B	0.53	0.056	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Beryllium	0.50		0.21	0.042	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Cadmium	0.16		0.11	0.013	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Calcium	43000		110	29	mg/Kg	☼	10/16/14 09:30	10/22/14 00:44	10
Chromium	12		0.53	0.061	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Cobalt	15		0.26	0.053	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Copper	29	B	0.53	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Iron	16000		11	4.3	mg/Kg	☼	10/16/14 09:30	10/22/14 00:39	1
Lead	13		0.26	0.079	mg/Kg	☼	10/16/14 09:30	10/23/14 13:58	1
Magnesium	18000	B	5.3	1.1	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Manganese	270	B	0.53	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Nickel	35	B	0.53	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Potassium	1600		26	1.6	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Selenium	0.39	J	0.53	0.19	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Silver	0.086	J	0.26	0.019	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Sodium	220		53	7.1	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Thallium	0.89		0.53	0.22	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Vanadium	14		0.26	0.039	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1
Zinc	88	B	1.1	0.21	mg/Kg	☼	10/16/14 09:30	10/19/14 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:54	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	25		19	7.3	ug/Kg	☼	10/10/14 11:30	10/13/14 16:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			10/13/14 21:35	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(0-5)-093014**

**Lab Sample ID: 500-85172-14**

**Date Collected: 09/30/14 12:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**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	*		10/11/14 04:50	1
Benzene	<6.0		6.0	0.83	ug/Kg	*		10/11/14 04:50	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	*		10/11/14 04:50	1
Bromoform	<6.0		6.0	1.4	ug/Kg	*		10/11/14 04:50	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	*		10/11/14 04:50	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	*		10/11/14 04:50	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	*		10/11/14 04:50	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	*		10/11/14 04:50	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	*		10/11/14 04:50	1
Chloroform	<6.0		6.0	0.69	ug/Kg	*		10/11/14 04:50	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	*		10/11/14 04:50	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	*		10/11/14 04:50	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	*		10/11/14 04:50	1
Dibromochloromethane	<6.0		6.0	1.1	ug/Kg	*		10/11/14 04:50	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	*		10/11/14 04:50	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	*		10/11/14 04:50	1
1,1-Dichloroethene	<6.0		6.0	0.98	ug/Kg	*		10/11/14 04:50	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	*		10/11/14 04:50	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	*		10/11/14 04:50	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	*		10/11/14 04:50	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	*		10/11/14 04:50	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	*		10/11/14 04:50	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	*		10/11/14 04:50	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	*		10/11/14 04:50	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	*		10/11/14 04:50	1
Styrene	<6.0		6.0	0.79	ug/Kg	*		10/11/14 04:50	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	*		10/11/14 04:50	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	*		10/11/14 04:50	1
Toluene	<6.0		6.0	0.84	ug/Kg	*		10/11/14 04:50	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	*		10/11/14 04:50	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	*		10/11/14 04:50	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	*		10/11/14 04:50	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	*		10/11/14 04:50	1
Trichloroethene	<6.0		6.0	1.0	ug/Kg	*		10/11/14 04:50	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	*		10/11/14 04:50	1
Xylenes, Total	<12		12	0.55	ug/Kg	*		10/11/14 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/11/14 04:50	1
Dibromofluoromethane	108		75 - 120		10/11/14 04:50	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		10/11/14 04:50	1
Toluene-d8 (Surr)	99		75 - 122		10/11/14 04:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<780		780	170	ug/Kg	*	10/11/14 11:34	10/20/14 23:43	1
1,2-Dichlorobenzene	<780		780	190	ug/Kg	*	10/11/14 11:34	10/20/14 23:43	1
1,3-Dichlorobenzene	<780		780	170	ug/Kg	*	10/11/14 11:34	10/20/14 23:43	1
1,4-Dichlorobenzene	<780		780	200	ug/Kg	*	10/11/14 11:34	10/20/14 23:43	1
2,2'-oxybis[1-chloropropane]	<780		780	180	ug/Kg	*	10/11/14 11:34	10/20/14 23:43	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(0-5)-093014**

**Lab Sample ID: 500-85172-14**

**Date Collected: 09/30/14 12:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**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	<1500		1500	350	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2,4,6-Trichlorophenol	<1500		1500	530	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2,4-Dichlorophenol	<1500		1500	370	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2,4-Dimethylphenol	<1500		1500	590	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2,4-Dinitrophenol	<3100	*	3100	2700	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2,4-Dinitrotoluene	<780		780	250	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2,6-Dinitrotoluene	<780		780	310	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2-Chloronaphthalene	<780		780	170	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2-Chlorophenol	<780		780	260	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2-Methylnaphthalene	<150		150	29	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2-Methylphenol	<780		780	250	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2-Nitroaniline	<780		780	210	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
2-Nitrophenol	<1500		1500	370	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
3 & 4 Methylphenol	<780		780	260	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
3,3'-Dichlorobenzidine	<780		780	220	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
3-Nitroaniline	<1500		1500	480	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
4,6-Dinitro-2-methylphenol	<1500		1500	1200	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
4-Bromophenyl phenyl ether	<780		780	200	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
4-Chloro-3-methylphenol	<1500		1500	530	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
4-Chloroaniline	<3100		3100	730	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
4-Chlorophenyl phenyl ether	<780		780	180	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
4-Nitroaniline	<1500		1500	650	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
4-Nitrophenol	<3100		3100	1500	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Acenaphthene	<150		150	28	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Acenaphthylene	<150		150	20	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Anthracene	<150		150	26	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Benzo[a]anthracene	<150		150	21	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
<b>Benzo[a]pyrene</b>	<b>37</b>	<b>J</b>	150	30	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
<b>Benzo[b]fluoranthene</b>	<b>97</b>	<b>J</b>	150	34	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
<b>Benzo[g,h,i]perylene</b>	<b>150</b>		150	50	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Benzo[k]fluoranthene	<150		150	46	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Bis(2-chloroethoxy)methane	<780		780	160	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Bis(2-chloroethyl)ether	<780		780	230	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Bis(2-ethylhexyl) phthalate	<780		780	280	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Butyl benzyl phthalate	<780		780	300	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Carbazole	<780		780	400	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Chrysene	<150		150	42	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Dibenz(a,h)anthracene	<150		150	30	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Dibenzofuran	<780		780	180	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Diethyl phthalate	<780		780	260	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Dimethyl phthalate	<780		780	200	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Di-n-butyl phthalate	<780		780	240	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Di-n-octyl phthalate	<780		780	250	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Fluoranthene	<150		150	29	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Fluorene	<150		150	22	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Hexachlorobenzene	<310		310	36	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Hexachlorobutadiene	<780		780	240	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Hexachlorocyclopentadiene	<3100		3100	890	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Hexachloroethane	<780		780	240	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(0-5)-093014**

**Lab Sample ID: 500-85172-14**

**Date Collected: 09/30/14 12:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**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	<150		150	40	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Isophorone	<780		780	170	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Naphthalene	<150		150	24	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Nitrobenzene	<150		150	39	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
N-Nitrosodi-n-propylamine	<780		780	190	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
N-Nitrosodiphenylamine	<780		780	180	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Pentachlorophenol	<3100		3100	2500	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Phenanthrene	<150		150	22	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Phenol	<780		780	340	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Pyrene	<150		150	31	ug/Kg	☼	10/11/14 11:34	10/20/14 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	19	X	35 - 137				10/11/14 11:34	10/20/14 23:43	1
2-Fluorobiphenyl	59		25 - 119				10/11/14 11:34	10/20/14 23:43	1
2-Fluorophenol	73		25 - 110				10/11/14 11:34	10/20/14 23:43	1
Nitrobenzene-d5	59		25 - 115				10/11/14 11:34	10/20/14 23:43	1
Phenol-d5	51		31 - 110				10/11/14 11:34	10/20/14 23:43	1
Terphenyl-d14	155	X	36 - 134				10/11/14 11:34	10/20/14 23:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Barium</b>	<b>0.61</b>		0.50	0.050	mg/L		10/14/14 08:25	10/15/14 01:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Cadmium</b>	<b>0.0035</b>	<b>J</b>	0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 01:31	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Cobalt</b>	<b>0.026</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Copper</b>	<b>0.068</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Lead</b>	<b>4.9</b>		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Manganese</b>	<b>9.4</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:31	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 01:31	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:31	1
<b>Zinc</b>	<b>0.13</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 01:31	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		10/14/14 09:15	10/16/14 01:53	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/16/14 01:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/16/14 01:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/16/14 01:53	1
<b>Chromium</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:53	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:53	1
<b>Copper</b>	<b>0.040</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:53	1
<b>Iron</b>	<b>16</b>		0.20	0.20	mg/L		10/14/14 09:15	10/16/14 01:53	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/16/14 01:53	1
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:53	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:53	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/16/14 01:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(0-5)-093014**

**Lab Sample ID: 500-85172-14**

Date Collected: 09/30/14 12:00

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/16/14 01:53	1
Zinc	0.11	B	0.10	0.020	mg/L		10/14/14 09:15	10/16/14 01:53	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.45	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Arsenic	4.5		0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Barium	38	B	0.56	0.059	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Beryllium	0.43		0.22	0.044	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Cadmium	0.26		0.11	0.014	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Calcium	91000		110	30	mg/Kg	☼	10/16/14 09:30	10/22/14 00:52	10
Chromium	10		0.56	0.064	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Cobalt	5.4		0.28	0.056	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Copper	12	B	0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Iron	9700		11	4.6	mg/Kg	☼	10/16/14 09:30	10/22/14 00:48	1
Lead	66		0.28	0.083	mg/Kg	☼	10/16/14 09:30	10/23/14 14:05	1
Magnesium	47000	B	5.6	1.1	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Manganese	240	B	0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Nickel	14	B	0.56	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Potassium	1200		28	1.7	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Selenium	0.38	J	0.56	0.20	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Sodium	700		56	7.4	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Thallium	<0.56		0.56	0.23	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Vanadium	12		0.28	0.041	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1
Zinc	56	B	1.1	0.22	mg/Kg	☼	10/16/14 09:30	10/19/14 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:56	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	31		18	7.1	ug/Kg	☼	10/10/14 11:30	10/13/14 16:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU			10/13/14 21:44	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(5-10)-093014**

**Lab Sample ID: 500-85172-15**

**Date Collected: 09/30/14 12:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 83.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26		6.0	2.6	ug/Kg	☼		10/11/14 05:15	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/11/14 05:15	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/11/14 05:15	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/11/14 05:15	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/11/14 05:15	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		10/11/14 05:15	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/11/14 05:15	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/11/14 05:15	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/11/14 05:15	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/11/14 05:15	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/11/14 05:15	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/11/14 05:15	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/11/14 05:15	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/11/14 05:15	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/11/14 05:15	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/11/14 05:15	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/11/14 05:15	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/11/14 05:15	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/11/14 05:15	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/11/14 05:15	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/11/14 05:15	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/11/14 05:15	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/11/14 05:15	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/11/14 05:15	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/11/14 05:15	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/11/14 05:15	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/11/14 05:15	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		10/11/14 05:15	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/11/14 05:15	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		10/11/14 05:15	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/11/14 05:15	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/11/14 05:15	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/11/14 05:15	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/11/14 05:15	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/11/14 05:15	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/11/14 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		10/11/14 05:15	1
Dibromofluoromethane	104		75 - 120		10/11/14 05:15	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		10/11/14 05:15	1
Toluene-d8 (Surr)	98		75 - 122		10/11/14 05:15	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	☼	10/11/14 11:34	10/21/14 19:50	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(5-10)-093014**

**Lab Sample ID: 500-85172-15**

**Date Collected: 09/30/14 12:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Anthracene	<38		38	6.5	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Carbazole	<190		190	100	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Chrysene	<38		38	11	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(5-10)-093014**

**Lab Sample ID: 500-85172-15**

**Date Collected: 09/30/14 12:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Isophorone	<190		190	43	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Phenol	<190		190	86	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Pyrene	<38		38	7.7	ug/Kg	☼	10/11/14 11:34	10/21/14 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	23	X	35 - 137				10/11/14 11:34	10/21/14 19:50	1
2-Fluorobiphenyl	33		25 - 119				10/11/14 11:34	10/21/14 19:50	1
2-Fluorophenol	28		25 - 110				10/11/14 11:34	10/21/14 19:50	1
Nitrobenzene-d5	19	X	25 - 115				10/11/14 11:34	10/21/14 19:50	1
Phenol-d5	28	X	31 - 110				10/11/14 11:34	10/21/14 19:50	1
Terphenyl-d14	57		36 - 134				10/11/14 11:34	10/21/14 19:50	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		10/14/14 08:25	10/15/14 01:36	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 01:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 01:36	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Copper</b>	<b>0.083</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Iron</b>	<b>0.33</b>		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Manganese</b>	<b>4.8</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:36	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 01:36	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:36	1
<b>Zinc</b>	<b>0.099</b>	<b>J B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 01:36	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		10/14/14 09:15	10/16/14 01:57	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/16/14 01:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/16/14 01:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/16/14 01:57	1
<b>Chromium</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:57	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:57	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:57	1
<b>Iron</b>	<b>13</b>		0.20	0.20	mg/L		10/14/14 09:15	10/16/14 01:57	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		10/14/14 09:15	10/16/14 01:57	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:57	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/16/14 01:57	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/16/14 01:57	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-2(5-10)-093014**

**Lab Sample ID: 500-85172-15**

Date Collected: 09/30/14 12:05

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/16/14 01:57	1
<b>Zinc</b>	<b>0.11</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 09:15	10/16/14 01:57	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Arsenic</b>	<b>7.0</b>		0.59	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Barium</b>	<b>35</b>	<b>B</b>	0.59	0.063	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Beryllium</b>	<b>0.59</b>		0.23	0.047	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Cadmium</b>	<b>0.17</b>		0.12	0.015	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Calcium</b>	<b>2400</b>	<b>B</b>	12	3.2	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Chromium</b>	<b>16</b>		0.59	0.068	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Cobalt</b>	<b>8.5</b>		0.29	0.059	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Copper</b>	<b>18</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Iron</b>	<b>19000</b>		12	4.8	mg/Kg	☼	10/16/14 09:30	10/22/14 00:56	1
<b>Lead</b>	<b>13</b>		0.29	0.087	mg/Kg	☼	10/16/14 09:30	10/23/14 14:11	1
<b>Magnesium</b>	<b>3700</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Manganese</b>	<b>250</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Nickel</b>	<b>27</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Potassium</b>	<b>1800</b>		29	1.8	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Silver</b>	<b>0.035</b>	<b>J</b>	0.29	0.021	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Sodium</b>	<b>890</b>		59	7.9	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Thallium</b>	<b>0.40</b>	<b>J</b>	0.59	0.25	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Vanadium</b>	<b>18</b>		0.29	0.043	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1
<b>Zinc</b>	<b>61</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	10/16/14 09:30	10/19/14 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>36</b>		18	7.1	ug/Kg	☼	10/10/14 11:30	10/13/14 16:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.79</b>		0.200	0.200	SU			10/13/14 21:53	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(0-5)-093014**

**Lab Sample ID: 500-85172-16**

**Date Collected: 09/30/14 12:35**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 83.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>180</b>		6.0	2.6	ug/Kg	☼		10/11/14 05:39	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/11/14 05:39	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/11/14 05:39	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/11/14 05:39	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/11/14 05:39	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/11/14 05:39	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/11/14 05:39	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/11/14 05:39	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/11/14 05:39	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/11/14 05:39	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/11/14 05:39	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/11/14 05:39	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/11/14 05:39	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/11/14 05:39	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/11/14 05:39	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/11/14 05:39	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/11/14 05:39	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/11/14 05:39	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/11/14 05:39	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/11/14 05:39	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/11/14 05:39	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/11/14 05:39	1
<b>Methyl Ethyl Ketone</b>	<b>36</b>		6.0	2.2	ug/Kg	☼		10/11/14 05:39	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/11/14 05:39	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/11/14 05:39	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/11/14 05:39	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/11/14 05:39	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/11/14 05:39	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/11/14 05:39	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/11/14 05:39	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/11/14 05:39	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/11/14 05:39	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/11/14 05:39	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/11/14 05:39	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/11/14 05:39	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/11/14 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		10/11/14 05:39	1
Dibromofluoromethane	103		75 - 120		10/11/14 05:39	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		10/11/14 05:39	1
Toluene-d8 (Surr)	100		75 - 122		10/11/14 05:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(0-5)-093014**

**Lab Sample ID: 500-85172-16**

**Date Collected: 09/30/14 12:35**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
<b>Benzo[a]anthracene</b>	<b>8.7</b>	<b>J</b>	39	5.3	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
<b>Benzo[a]pyrene</b>	<b>11</b>	<b>J</b>	39	7.6	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
<b>Benzo[b]fluoranthene</b>	<b>20</b>	<b>J</b>	39	8.5	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Carbazole	<200		200	100	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Chrysene	<39		39	11	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
<b>Fluoranthene</b>	<b>17</b>	<b>J</b>	39	7.3	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(0-5)-093014**

**Lab Sample ID: 500-85172-16**

**Date Collected: 09/30/14 12:35**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 83.1**

**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	<39		39	10	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Isophorone	<200		200	44	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Naphthalene	<39		39	6.0	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
<b>Phenanthrene</b>	<b>13</b>	<b>J</b>	39	5.5	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Phenol	<200		200	87	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
<b>Pyrene</b>	<b>34</b>	<b>J</b>	39	7.8	ug/Kg	☼	10/11/14 11:34	10/21/14 00:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	25	X	35 - 137				10/11/14 11:34	10/21/14 00:56	1
2-Fluorobiphenyl	49		25 - 119				10/11/14 11:34	10/21/14 00:56	1
2-Fluorophenol	52		25 - 110				10/11/14 11:34	10/21/14 00:56	1
Nitrobenzene-d5	47		25 - 115				10/11/14 11:34	10/21/14 00:56	1
Phenol-d5	40		31 - 110				10/11/14 11:34	10/21/14 00:56	1
Terphenyl-d14	160	X	36 - 134				10/11/14 11:34	10/21/14 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		10/14/14 08:25	10/15/14 01:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 01:41	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Cobalt</b>	<b>0.031</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Copper</b>	<b>0.10</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:41	1
Iron	<0.20		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Lead</b>	<b>0.039</b>		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Manganese</b>	<b>6.6</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:41	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 01:41	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:41	1
<b>Zinc</b>	<b>0.11</b>	<b>B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 01:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.036</b>	<b>J</b>	0.050	0.010	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Beryllium</b>	<b>0.0044</b>		0.0040	0.0040	mg/L		10/14/14 09:15	10/16/14 02:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Chromium</b>	<b>0.10</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Cobalt</b>	<b>0.041</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Copper</b>	<b>0.15</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Lead</b>	<b>0.12</b>		0.038	0.038	mg/L		10/14/14 09:15	10/16/14 13:40	5
<b>Manganese</b>	<b>0.79</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:01	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:01	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/16/14 02:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(0-5)-093014**

**Lab Sample ID: 500-85172-16**

Date Collected: 09/30/14 12:35

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/16/14 02:01	1
Zinc	0.41	B	0.10	0.020	mg/L		10/14/14 09:15	10/16/14 02:01	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	☼	10/16/14 09:30	10/19/14 12:36	1
Arsenic	6.1		0.55	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Barium	60	B	0.55	0.059	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Beryllium	0.59		0.22	0.044	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Cadmium	0.21		0.11	0.014	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Calcium	14000	B	11	3.0	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Chromium	15		0.55	0.064	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Cobalt	11		0.28	0.055	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Copper	15	B	0.55	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Iron	15000		11	4.6	mg/Kg	☼	10/16/14 09:30	10/22/14 01:08	1
Lead	22		0.28	0.083	mg/Kg	☼	10/16/14 09:30	10/23/14 14:17	1
Magnesium	8300	B	5.5	1.1	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Manganese	460	B	0.55	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Nickel	19	B	0.55	0.11	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Potassium	1400		28	1.7	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Selenium	0.45	J	0.55	0.20	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Silver	0.029	J	0.28	0.020	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Sodium	1400		55	7.4	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Thallium	0.27	J	0.55	0.23	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Vanadium	19		0.28	0.041	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1
Zinc	61	B	1.1	0.22	mg/Kg	☼	10/16/14 09:30	10/19/14 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 11:04	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	31		18	7.1	ug/Kg	☼	10/10/14 11:30	10/13/14 16:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			10/13/14 22:02	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(5-10)-093014**

**Lab Sample ID: 500-85172-17**

**Date Collected: 09/30/14 12:40**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 80.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		10/11/14 06:03	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		10/11/14 06:03	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/11/14 06:03	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/11/14 06:03	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/11/14 06:03	1
Carbon disulfide	<6.2		6.2	0.93	ug/Kg	☼		10/11/14 06:03	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/11/14 06:03	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/11/14 06:03	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		10/11/14 06:03	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		10/11/14 06:03	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/11/14 06:03	1
cis-1,2-Dichloroethene	<6.2		6.2	0.88	ug/Kg	☼		10/11/14 06:03	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		10/11/14 06:03	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/11/14 06:03	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		10/11/14 06:03	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/11/14 06:03	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/11/14 06:03	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		10/11/14 06:03	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		10/11/14 06:03	1
Ethylbenzene	<6.2		6.2	1.3	ug/Kg	☼		10/11/14 06:03	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/11/14 06:03	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		10/11/14 06:03	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		10/11/14 06:03	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/11/14 06:03	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/11/14 06:03	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		10/11/14 06:03	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.3	ug/Kg	☼		10/11/14 06:03	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		10/11/14 06:03	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		10/11/14 06:03	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		10/11/14 06:03	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/11/14 06:03	1
1,1,1-Trichloroethane	<6.2		6.2	0.93	ug/Kg	☼		10/11/14 06:03	1
1,1,2-Trichloroethane	<6.2		6.2	0.85	ug/Kg	☼		10/11/14 06:03	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/11/14 06:03	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/11/14 06:03	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/11/14 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		10/11/14 06:03	1
Dibromofluoromethane	103		75 - 120		10/11/14 06:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		10/11/14 06:03	1
Toluene-d8 (Surr)	101		75 - 122		10/11/14 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
1,2-Dichlorobenzene	<200		200	49	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(5-10)-093014**

**Lab Sample ID: 500-85172-17**

**Date Collected: 09/30/14 12:40**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	93	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2,4-Dichlorophenol	<400		400	97	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2,4-Dinitrophenol	<820	*	820	720	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2,4-Dinitrotoluene	<200		200	65	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2-Chlorophenol	<200		200	70	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2-Methylnaphthalene	<40		40	7.5	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2-Methylphenol	<200		200	65	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2-Nitroaniline	<200		200	55	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
4,6-Dinitro-2-methylphenol	<400		400	330	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
4-Bromophenyl phenyl ether	<200		200	54	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
4-Chlorophenyl phenyl ether	<200		200	48	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Acenaphthylene	<40		40	5.4	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Anthracene	<40		40	6.8	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Benzo[a]anthracene	<40		40	5.5	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Benzo[a]pyrene	<40		40	7.9	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Benzo[b]fluoranthene	<40		40	8.8	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Bis(2-chloroethoxy)methane	<200		200	42	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Butyl benzyl phthalate	<200		200	78	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Carbazole	<200		200	110	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Chrysene	<40		40	11	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Dibenz(a,h)anthracene	<40		40	7.9	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Dibenzofuran	<200		200	48	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Fluoranthene	<40		40	7.6	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Fluorene	<40		40	5.7	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Hexachloroethane	<200		200	62	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(5-10)-093014**

**Lab Sample ID: 500-85172-17**

**Date Collected: 09/30/14 12:40**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 80.7**

**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	<40		40	11	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Isophorone	<200		200	46	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Naphthalene	<40		40	6.3	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
N-Nitrosodi-n-propylamine	<200		200	50	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Phenanthrene	<40		40	5.7	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
Phenol	<200		200	91	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1
<b>Pyrene</b>	<b>9.7</b>	<b>J</b>	40	8.1	ug/Kg	☼	10/11/14 11:34	10/21/14 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	13	X	35 - 137	10/11/14 11:34	10/21/14 01:15	1
2-Fluorobiphenyl	37		25 - 119	10/11/14 11:34	10/21/14 01:15	1
2-Fluorophenol	43		25 - 110	10/11/14 11:34	10/21/14 01:15	1
Nitrobenzene-d5	35		25 - 115	10/11/14 11:34	10/21/14 01:15	1
Phenol-d5	33		31 - 110	10/11/14 11:34	10/21/14 01:15	1
Terphenyl-d14	126		36 - 134	10/11/14 11:34	10/21/14 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/14/14 08:25	10/15/14 01:46	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 08:25	10/15/14 01:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 08:25	10/15/14 01:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 08:25	10/15/14 01:46	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:46	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:46	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:46	1
<b>Iron</b>	<b>0.53</b>		0.20	0.20	mg/L		10/14/14 08:25	10/15/14 01:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/14/14 08:25	10/15/14 01:46	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:46	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:46	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 08:25	10/15/14 01:46	1
Silver	<0.025		0.025	0.010	mg/L		10/14/14 08:25	10/15/14 01:46	1
<b>Zinc</b>	<b>0.069</b>	<b>J B</b>	0.10	0.020	mg/L		10/14/14 08:25	10/15/14 01:46	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		10/14/14 09:15	10/16/14 02:05	1
<b>Barium</b>	<b>0.076</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:15	10/16/14 02:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:15	10/16/14 02:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:15	10/16/14 02:05	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:05	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:05	1
<b>Copper</b>	<b>0.041</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:05	1
<b>Iron</b>	<b>3.1</b>		0.20	0.20	mg/L		10/14/14 09:15	10/16/14 02:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/14/14 09:15	10/16/14 02:05	1
<b>Manganese</b>	<b>0.045</b>		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:05	1
Nickel	<0.025		0.025	0.010	mg/L		10/14/14 09:15	10/16/14 02:05	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:15	10/16/14 02:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

**Client Sample ID: MS-3(5-10)-093014**

**Lab Sample ID: 500-85172-17**

Date Collected: 09/30/14 12:40

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:15	10/16/14 02:05	1
Zinc	0.085	J B	0.10	0.020	mg/L		10/14/14 09:15	10/16/14 02:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Arsenic	7.9		0.62	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Barium	53	B	0.62	0.066	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Beryllium	0.72		0.25	0.049	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Cadmium	0.16		0.12	0.016	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Calcium	3300	B	12	3.3	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Chromium	17		0.62	0.072	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Cobalt	7.8		0.31	0.062	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Copper	22	B	0.62	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Iron	22000		12	5.1	mg/Kg	☼	10/16/14 09:30	10/22/14 01:13	1
Lead	14		0.31	0.092	mg/Kg	☼	10/16/14 09:30	10/23/14 14:23	1
Magnesium	3600	B	6.2	1.3	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Manganese	320	B	0.62	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Nickel	25	B	0.62	0.12	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Potassium	1400		31	1.9	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Selenium	0.27	J	0.62	0.22	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Silver	0.037	J	0.31	0.022	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Sodium	1200		62	8.3	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Vanadium	23		0.31	0.046	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1
Zinc	77	B	1.2	0.25	mg/Kg	☼	10/16/14 09:30	10/19/14 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/14/14 11:30	10/15/14 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 11:06	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	51		18	7.1	ug/Kg	☼	10/10/14 11:30	10/13/14 16:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			10/13/14 22:11	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.
X	Surrogate is outside control limits

### Metals

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

## Glossary

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



# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85172-1

## 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 ENVIRONMENTAL

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



500-85172 COC

Report To (optional)  
Contact: Weston Solutions  
Company: S. Babusukumar  
Address: 300 Plainville, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7254  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85172  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 2  
Temperature °C of Cooler: 2/12/4

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Weston Solutions		02056-013.090.0030		7	7	7	7	7				
Project Name		Lab Project #		Sampling		# of Containers	Matrix	Matrix				
1DOT 090-Orland Park, IL				Date	Time			VOCs	SVOCS	TOTAL METALS	TELE/SPLD Metals	PH
Project Location/State		Lab PM		Sample ID								
Orland Park, IL		D. Wright		RS-2(0-5)-093014								
Sampler		Lab PM		Date		Time		# of Containers		Matrix		
M. Bohony-Skubic		D. Wright		9-30-14		0850		2		S		
1		RS-2(0-5)-093014	9-30-14	0850	2	S	X	X	X	X	X	
2		RS-2(5-10)-093014		0855	2	S						
3		RS-2(10-15)-093014		0900	2	S						
4		RS-1(0-5)-093014		0935	2	S						
5		RS-1(5-10)-093014		0940	2	S						
6		RS-1(5-10)-093014D		0940	2	S						
7		RS-1(10-15)-093014		0950	2	S						
8		RT2-2(0-5)-093014		1020	2	S						
9		RT2-2(5-10)-093014		1025	2	S						
10		RT2-1(0-5)-093014	9-30-14	1055	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  As Lab Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>David Wilkins</u> Company <u>TA</u> Date <u>9/30/14</u> Time <u>1528</u>	Received By <u>David Wilkins</u> Company <u>TA</u> Date <u>9/30/14</u> Time <u>1528</u>
Relinquished By <u>David Wilkins</u> Company <u>TA</u> Date <u>9/30/14</u> Time <u>1610</u>	Received By <u>David Wilkins</u> Company <u>TA</u> Date <u>10/1/14</u> Time <u>0800</u>

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

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

Client Comments:

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 Inc  
Address: 300 Plaza Circle Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7234  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-85172  
Chain of Custody Number:  
Page 2 of 2  
Temperature °C of Cooler: 21/2.4

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Weston Solutions				7	7	7	7	7			
Project Name		Lab Project #		Sampling		# of Containers	Matrix	Comments			
IDOT 090 - orlandPark, IL				Date	Time						
Project Location/State		Lab PM									
Orland Park, IL		D. Wright									
Sampler											
M. Doherty-Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TURBIDITY	PH
11		RS-2(5-10)-093014	9-30-14	1058	2	S	X	X	X	X	X
12		MS-1(0-5)-093014		1135	2	S					
13		MS-2(5-10)-093014		1140	2	S					
14		MS-2(0-5)-093014		1200	2	S					
15		MS-2(5-10)-093014		1205	2	S					
16		MS-3(0-5)-093014		1235	2	S					
17		MS-3(5-10)-093014	9-30-14	1240	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>David Phillips</u> Company <u>Weston</u>	Date <u>9-30-14</u>	Time <u>1524</u>	Received By <u>David Phillips</u> Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>1528</u>
Relinquished By <u>David Phillips</u> Company <u>TA</u>	Date <u>9/30/14</u>	Time <u>1610</u>	Received By <u>Sherrill</u> Company <u>TA-CAT</u>	Date <u>9/10/14</u>	Time <u>0800</u>
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier: TA  
Shipped:  
Hand Delivered:

Matrix Key

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

Client Comments:

Lab Comments:

# 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: 500-85173-1  
Client Project/Site: IDOT - Orland Park - WO 090

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
10/21/2014 4:58:52 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)

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

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

- 1
- 2
- 3
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(0-5)-093014**

**Lab Sample ID: 500-85173-1**

**Date Collected: 09/30/14 13:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	☼		10/11/14 06:27	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		10/11/14 06:27	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 06:27	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/11/14 06:27	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		10/11/14 06:27	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		10/11/14 06:27	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 06:27	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/11/14 06:27	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		10/11/14 06:27	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		10/11/14 06:27	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/11/14 06:27	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		10/11/14 06:27	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		10/11/14 06:27	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 06:27	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		10/11/14 06:27	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		10/11/14 06:27	1
1,1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		10/11/14 06:27	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		10/11/14 06:27	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		10/11/14 06:27	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/11/14 06:27	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		10/11/14 06:27	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		10/11/14 06:27	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/11/14 06:27	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/11/14 06:27	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/11/14 06:27	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		10/11/14 06:27	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/11/14 06:27	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		10/11/14 06:27	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		10/11/14 06:27	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		10/11/14 06:27	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/11/14 06:27	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/11/14 06:27	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		10/11/14 06:27	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/11/14 06:27	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/11/14 06:27	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/11/14 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		10/11/14 06:27	1
Dibromofluoromethane	104		75 - 120		10/11/14 06:27	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		10/11/14 06:27	1
Toluene-d8 (Surr)	101		75 - 122		10/11/14 06:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(0-5)-093014**

**Lab Sample ID: 500-85173-1**

**Date Collected: 09/30/14 13:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2-Chloronaphthalene	<200		200	44	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2-Chlorophenol	<200		200	68	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2-Methylnaphthalene	<40		40	7.3	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2-Methylphenol	<200		200	64	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2-Nitroaniline	<200		200	54	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
2-Nitrophenol	<400		400	94	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
3-Nitroaniline	<400		400	120	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
4-Chloroaniline	<800		800	190	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
4-Nitroaniline	<400		400	170	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
4-Nitrophenol	<800		800	380	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Acenaphthene	<40		40	7.2	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Acenaphthylene	<40		40	5.3	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Anthracene	<40		40	6.7	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
<b>Benzo[a]pyrene</b>	<b>9.6 J</b>		40	7.7	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
<b>Benzo[b]fluoranthene</b>	<b>12 J</b>		40	8.6	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Carbazole	<200		200	100	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
<b>Chrysene</b>	<b>11 J</b>		40	11	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Dibenzofuran	<200		200	47	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Diethyl phthalate	<200		200	68	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Dimethyl phthalate	<200		200	52	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Fluoranthene	<40		40	7.4	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Fluorene	<40		40	5.6	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Hexachlorobutadiene	<200		200	63	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1
Hexachloroethane	<200		200	61	ug/Kg	*	10/10/14 07:06	10/16/14 19:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(0-5)-093014**

**Lab Sample ID: 500-85173-1**

**Date Collected: 09/30/14 13:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.9**

**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	<40		40	10	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
Isophorone	<200		200	45	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
Naphthalene	<40		40	6.1	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
Phenol	<200		200	89	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	1
Pyrene	<40		40	7.9	ug/Kg	☼	10/10/14 07:06	10/16/14 19:51	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	56		35 - 137				10/10/14 07:06	10/16/14 19:51	1
2-Fluorobiphenyl	44		25 - 119				10/10/14 07:06	10/16/14 19:51	1
2-Fluorophenol	44		25 - 110				10/10/14 07:06	10/16/14 19:51	1
Nitrobenzene-d5	39		25 - 115				10/10/14 07:06	10/16/14 19:51	1
Phenol-d5	38		31 - 110				10/10/14 07:06	10/16/14 19:51	1
Terphenyl-d14	66		36 - 134				10/10/14 07:06	10/16/14 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/16/14 08:30	10/17/14 05:54	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		10/16/14 08:30	10/17/14 05:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/14 08:30	10/17/14 05:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/16/14 08:30	10/17/14 05:54	1
Chromium	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 05:54	1
Cobalt	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 05:54	1
Copper	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 05:54	1
Iron	<0.20		0.20	0.20	mg/L		10/16/14 08:30	10/17/14 05:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/16/14 08:30	10/18/14 21:08	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 05:54	1
Nickel	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 05:54	1
Selenium	<0.050		0.050	0.020	mg/L		10/16/14 08:30	10/18/14 21:08	1
Silver	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 05:54	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		10/16/14 08:30	10/17/14 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		10/14/14 09:50	10/20/14 01:17	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:50	10/20/14 01:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:50	10/20/14 01:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:50	10/20/14 01:17	1
<b>Chromium</b>	<b>0.078</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:17	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:17	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:17	1
<b>Iron</b>	<b>72</b>		0.20	0.20	mg/L		10/14/14 09:50	10/20/14 15:26	1
Lead	<0.075		0.075	0.075	mg/L		10/14/14 09:50	10/20/14 15:42	10
<b>Manganese</b>	<b>0.33</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:17	1
<b>Nickel</b>	<b>0.049</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:17	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:50	10/20/14 01:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(0-5)-093014**

**Lab Sample ID: 500-85173-1**

Date Collected: 09/30/14 13:05

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:50	10/20/14 15:26	1
<b>Zinc</b>	<b>0.34</b>	<b>B</b>	0.20	0.020	mg/L		10/14/14 09:50	10/20/14 01:17	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Arsenic</b>	<b>7.7</b>		0.59	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Barium</b>	<b>75</b>		0.59	0.063	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Beryllium</b>	<b>0.49</b>		0.24	0.047	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Calcium</b>	<b>28000</b>		12	3.2	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Chromium</b>	<b>13</b>		0.59	0.069	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Cobalt</b>	<b>8.3</b>		0.30	0.059	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Copper</b>	<b>16</b>		0.59	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Iron</b>	<b>17000</b>		12	4.9	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Lead</b>	<b>21</b>	<b>B</b>	0.30	0.088	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Magnesium</b>	<b>19000</b>		5.9	1.2	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Manganese</b>	<b>630</b>		0.59	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Nickel</b>	<b>13</b>		0.59	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Potassium</b>	<b>1600</b>		30	1.8	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Sodium</b>	<b>1100</b>	<b>B</b>	59	7.9	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Thallium</b>	<b>1.2</b>		0.59	0.25	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Vanadium</b>	<b>21</b>		0.30	0.044	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1
<b>Zinc</b>	<b>46</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	10/14/14 09:45	10/21/14 02:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/16/14 14:00	10/17/14 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 11:55	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>26</b>		19	7.3	ug/Kg	☼	10/13/14 14:00	10/14/14 13:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.93</b>		0.200	0.200	SU			10/15/14 16:29	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(5-9)-093014**

**Lab Sample ID: 500-85173-2**

**Date Collected: 09/30/14 13:10**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.7	ug/Kg	*		10/11/14 06:51	1
Benzene	<6.1		6.1	0.84	ug/Kg	*		10/11/14 06:51	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	*		10/11/14 06:51	1
Bromoform	<6.1		6.1	1.4	ug/Kg	*		10/11/14 06:51	1
Bromomethane	<6.1		6.1	1.9	ug/Kg	*		10/11/14 06:51	1
Carbon disulfide	<6.1		6.1	0.92	ug/Kg	*		10/11/14 06:51	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	*		10/11/14 06:51	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	*		10/11/14 06:51	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	*		10/11/14 06:51	1
Chloroform	<6.1		6.1	0.71	ug/Kg	*		10/11/14 06:51	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	*		10/11/14 06:51	1
cis-1,2-Dichloroethene	<6.1		6.1	0.87	ug/Kg	*		10/11/14 06:51	1
cis-1,3-Dichloropropene	<6.1		6.1	0.81	ug/Kg	*		10/11/14 06:51	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	*		10/11/14 06:51	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	*		10/11/14 06:51	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	*		10/11/14 06:51	1
1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	*		10/11/14 06:51	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	*		10/11/14 06:51	1
1,3-Dichloropropene, Total	<6.1		6.1	0.81	ug/Kg	*		10/11/14 06:51	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	*		10/11/14 06:51	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	*		10/11/14 06:51	1
Methylene Chloride	<6.1		6.1	1.7	ug/Kg	*		10/11/14 06:51	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	*		10/11/14 06:51	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	*		10/11/14 06:51	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	*		10/11/14 06:51	1
Styrene	<6.1		6.1	0.81	ug/Kg	*		10/11/14 06:51	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	*		10/11/14 06:51	1
Tetrachloroethene	<6.1		6.1	0.94	ug/Kg	*		10/11/14 06:51	1
Toluene	<6.1		6.1	0.86	ug/Kg	*		10/11/14 06:51	1
trans-1,2-Dichloroethene	<6.1		6.1	0.85	ug/Kg	*		10/11/14 06:51	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	*		10/11/14 06:51	1
1,1,1-Trichloroethane	<6.1		6.1	0.92	ug/Kg	*		10/11/14 06:51	1
1,1,2-Trichloroethane	<6.1		6.1	0.84	ug/Kg	*		10/11/14 06:51	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	*		10/11/14 06:51	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	*		10/11/14 06:51	1
Xylenes, Total	<12		12	0.56	ug/Kg	*		10/11/14 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		10/11/14 06:51	1
Dibromofluoromethane	102		75 - 120		10/11/14 06:51	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		10/11/14 06:51	1
Toluene-d8 (Surr)	100		75 - 122		10/11/14 06:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	*	10/10/14 07:06	10/16/14 20:14	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	*	10/10/14 07:06	10/16/14 20:14	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	*	10/10/14 07:06	10/16/14 20:14	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	*	10/10/14 07:06	10/16/14 20:14	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	*	10/10/14 07:06	10/16/14 20:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(5-9)-093014**

**Lab Sample ID: 500-85173-2**

**Date Collected: 09/30/14 13:10**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 81.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2,4-Dichlorophenol	<400		400	94	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2-Methylnaphthalene	<40		40	7.3	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Acenaphthene	<40		40	7.1	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Acenaphthylene	<40		40	5.2	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Anthracene	<40		40	6.6	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Benzo[a]pyrene	<40		40	7.7	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Benzo[b]fluoranthene	<40		40	8.6	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Carbazole	<200		200	100	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Chrysene	<40		40	11	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Dibenzofuran	<200		200	47	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Fluoranthene	<40		40	7.4	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Fluorene	<40		40	5.6	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(5-9)-093014**

**Lab Sample ID: 500-85173-2**

Date Collected: 09/30/14 13:10

Matrix: Solid

Date Received: 10/01/14 08:00

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Isophorone	<200		200	45	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Naphthalene	<40		40	6.1	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Phenanthrene	<40		40	5.5	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Phenol	<200		200	88	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Pyrene	<40		40	7.9	ug/Kg	☼	10/10/14 07:06	10/16/14 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137				10/10/14 07:06	10/16/14 20:14	1
2-Fluorobiphenyl	51		25 - 119				10/10/14 07:06	10/16/14 20:14	1
2-Fluorophenol	49		25 - 110				10/10/14 07:06	10/16/14 20:14	1
Nitrobenzene-d5	45		25 - 115				10/10/14 07:06	10/16/14 20:14	1
Phenol-d5	44		31 - 110				10/10/14 07:06	10/16/14 20:14	1
Terphenyl-d14	77		36 - 134				10/10/14 07:06	10/16/14 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/16/14 08:30	10/17/14 06:13	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		10/16/14 08:30	10/17/14 06:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/14 08:30	10/17/14 06:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/16/14 08:30	10/17/14 06:13	1
Chromium	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:13	1
Cobalt	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:13	1
Copper	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:13	1
Iron	<0.20		0.20	0.20	mg/L		10/16/14 08:30	10/17/14 06:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/16/14 08:30	10/18/14 21:27	1
<b>Manganese</b>	<b>0.088</b>		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:13	1
Nickel	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:13	1
Selenium	<0.050		0.050	0.020	mg/L		10/16/14 08:30	10/18/14 21:27	1
Silver	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:13	1
Zinc	<0.10		0.10	0.020	mg/L		10/16/14 08:30	10/17/14 06:13	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		10/14/14 09:50	10/20/14 01:33	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:50	10/20/14 01:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:50	10/20/14 01:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:50	10/20/14 01:33	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:33	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:33	1
<b>Copper</b>	<b>0.085</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:33	1
<b>Iron</b>	<b>4.8</b>		0.20	0.20	mg/L		10/14/14 09:50	10/20/14 16:06	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		10/14/14 09:50	10/20/14 01:33	1
<b>Manganese</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:33	1
Nickel	<0.025		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:33	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:50	10/20/14 01:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-4(5-9)-093014**

**Lab Sample ID: 500-85173-2**

Date Collected: 09/30/14 13:10

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:50	10/20/14 16:06	1
<b>Zinc</b>	<b>0.26</b>	<b>B</b>	0.20	0.020	mg/L		10/14/14 09:50	10/20/14 01:33	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Arsenic</b>	<b>11</b>		0.60	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Barium</b>	<b>57</b>		0.60	0.064	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Beryllium</b>	<b>0.59</b>		0.24	0.048	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Cadmium</b>	<b>0.37</b>	<b>J B</b>	0.60	0.076	mg/Kg	☼	10/14/14 09:45	10/21/14 14:42	5
<b>Calcium</b>	<b>1700</b>		12	3.2	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Chromium</b>	<b>14</b>		0.60	0.069	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Cobalt</b>	<b>5.9</b>		0.30	0.060	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Copper</b>	<b>39</b>		0.60	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Iron</b>	<b>27000</b>		12	4.9	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Lead</b>	<b>27</b>	<b>B</b>	0.30	0.089	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Magnesium</b>	<b>2700</b>		6.0	1.2	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Manganese</b>	<b>220</b>		0.60	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Nickel</b>	<b>23</b>		0.60	0.12	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Potassium</b>	<b>1300</b>		30	1.8	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.60	0.21	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Sodium</b>	<b>1100</b>	<b>B</b>	60	8.0	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Thallium</b>	<b>1.3</b>		0.60	0.25	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Vanadium</b>	<b>19</b>		0.30	0.044	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1
<b>Zinc</b>	<b>78</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	10/14/14 09:45	10/21/14 02:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/16/14 14:00	10/17/14 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 11:57	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>33</b>		20	7.8	ug/Kg	☼	10/13/14 14:00	10/14/14 13:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.74</b>		0.200	0.200	SU			10/15/14 16:29	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(0-5)-093014**

**Lab Sample ID: 500-85173-6**

**Date Collected: 09/30/14 14:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 84.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.6	ug/Kg	*		10/11/14 08:27	1
Benzene	<5.9		5.9	0.81	ug/Kg	*		10/11/14 08:27	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	*		10/11/14 08:27	1
Bromoform	<5.9		5.9	1.4	ug/Kg	*		10/11/14 08:27	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	*		10/11/14 08:27	1
Carbon disulfide	<5.9		5.9	0.89	ug/Kg	*		10/11/14 08:27	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	*		10/11/14 08:27	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	*		10/11/14 08:27	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	*		10/11/14 08:27	1
Chloroform	<5.9		5.9	0.68	ug/Kg	*		10/11/14 08:27	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	*		10/11/14 08:27	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	*		10/11/14 08:27	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	*		10/11/14 08:27	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	*		10/11/14 08:27	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	*		10/11/14 08:27	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	*		10/11/14 08:27	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	*		10/11/14 08:27	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	*		10/11/14 08:27	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	*		10/11/14 08:27	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	*		10/11/14 08:27	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	*		10/11/14 08:27	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	*		10/11/14 08:27	1
Methyl Ethyl Ketone	<5.9		5.9	2.2	ug/Kg	*		10/11/14 08:27	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	*		10/11/14 08:27	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	*		10/11/14 08:27	1
Styrene	<5.9		5.9	0.78	ug/Kg	*		10/11/14 08:27	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	*		10/11/14 08:27	1
Tetrachloroethene	<5.9		5.9	0.91	ug/Kg	*		10/11/14 08:27	1
Toluene	<5.9		5.9	0.83	ug/Kg	*		10/11/14 08:27	1
trans-1,2-Dichloroethene	<5.9		5.9	0.82	ug/Kg	*		10/11/14 08:27	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	*		10/11/14 08:27	1
1,1,1-Trichloroethane	<5.9		5.9	0.89	ug/Kg	*		10/11/14 08:27	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	*		10/11/14 08:27	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	*		10/11/14 08:27	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	*		10/11/14 08:27	1
Xylenes, Total	<12		12	0.54	ug/Kg	*		10/11/14 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		10/11/14 08:27	1
Dibromofluoromethane	102		75 - 120		10/11/14 08:27	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		10/11/14 08:27	1
Toluene-d8 (Surr)	99		75 - 122		10/11/14 08:27	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	*	10/10/14 07:06	10/16/14 21:43	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(0-5)-093014**

**Lab Sample ID: 500-85173-6**

**Date Collected: 09/30/14 14:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 84.2**

**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	☼	10/10/14 07:06	10/16/14 21:43	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Anthracene	<38		38	6.5	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Carbazole	<190		190	100	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Chrysene	<38		38	11	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/10/14 07:06	10/16/14 21:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(0-5)-093014**

**Lab Sample ID: 500-85173-6**

**Date Collected: 09/30/14 14:00**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**Percent Solids: 84.2**

**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	*	10/10/14 07:06	10/16/14 21:43	1
Isophorone	<190		190	43	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
Naphthalene	<38		38	5.9	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
Nitrobenzene	<38		38	9.6	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
Pentachlorophenol	<780		780	620	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
Phenanthrene	<38		38	5.4	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
Phenol	<190		190	86	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	1
Pyrene	<38		38	7.7	ug/Kg	*	10/10/14 07:06	10/16/14 21:43	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	81		35 - 137				10/10/14 07:06	10/16/14 21:43	1
2-Fluorobiphenyl	75		25 - 119				10/10/14 07:06	10/16/14 21:43	1
2-Fluorophenol	83		25 - 110				10/10/14 07:06	10/16/14 21:43	1
Nitrobenzene-d5	73		25 - 115				10/10/14 07:06	10/16/14 21:43	1
Phenol-d5	72		31 - 110				10/10/14 07:06	10/16/14 21:43	1
Terphenyl-d14	101		36 - 134				10/10/14 07:06	10/16/14 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/16/14 08:30	10/17/14 06:34	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		10/16/14 08:30	10/17/14 06:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/14 08:30	10/17/14 06:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/16/14 08:30	10/17/14 06:34	1
Chromium	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:34	1
Cobalt	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:34	1
Copper	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:34	1
Iron	<0.20		0.20	0.20	mg/L		10/16/14 08:30	10/17/14 06:34	1
Lead	<0.0075	<sup>^</sup>	0.0075	0.0075	mg/L		10/16/14 08:30	10/18/14 21:55	1
<b>Manganese</b>	<b>0.10</b>		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:34	1
Nickel	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:34	1
Selenium	<0.050		0.050	0.020	mg/L		10/16/14 08:30	10/18/14 21:55	1
Silver	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:34	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		10/16/14 08:30	10/17/14 06:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.024</b>	<b>J</b>	0.050	0.010	mg/L		10/14/14 09:50	10/20/14 01:58	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		10/14/14 09:50	10/20/14 01:58	1
<b>Beryllium</b>	<b>0.0043</b>		0.0040	0.0040	mg/L		10/14/14 09:50	10/20/14 01:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:50	10/20/14 01:58	1
<b>Chromium</b>	<b>0.088</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:58	1
<b>Cobalt</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:58	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:58	1
<b>Iron</b>	<b>85</b>		0.20	0.20	mg/L		10/14/14 09:50	10/20/14 16:25	1
<b>Lead</b>	<b>0.10</b>		0.075	0.075	mg/L		10/14/14 09:50	10/20/14 16:29	10
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:58	1
<b>Nickel</b>	<b>0.082</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 01:58	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:50	10/20/14 01:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(0-5)-093014**

**Lab Sample ID: 500-85173-6**

Date Collected: 09/30/14 14:00

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:50	10/20/14 16:25	1
<b>Zinc</b>	<b>0.42</b>	<b>B</b>	0.20	0.020	mg/L		10/14/14 09:50	10/20/14 01:58	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	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Arsenic</b>	<b>7.6</b>		0.57	0.11	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Barium</b>	<b>63</b>		0.57	0.061	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Beryllium</b>	<b>0.56</b>		0.23	0.046	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
Cadmium	<0.11		0.11	0.015	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Calcium</b>	<b>31000</b>		11	3.1	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Chromium</b>	<b>16</b>		0.57	0.066	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Cobalt</b>	<b>7.8</b>		0.29	0.057	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Copper</b>	<b>22</b>		0.57	0.11	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Iron</b>	<b>18000</b>		11	4.7	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Lead</b>	<b>25</b>	<b>B</b>	0.29	0.085	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Magnesium</b>	<b>20000</b>		5.7	1.2	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Manganese</b>	<b>430</b>		0.57	0.11	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Nickel</b>	<b>18</b>		0.57	0.11	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Potassium</b>	<b>2300</b>		29	1.7	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Sodium</b>	<b>910</b>	<b>B</b>	57	7.7	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Thallium</b>	<b>0.85</b>		0.57	0.24	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Vanadium</b>	<b>20</b>		0.29	0.042	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1
<b>Zinc</b>	<b>53</b>	<b>B</b>	1.1	0.23	mg/Kg	☼	10/14/14 09:45	10/21/14 03:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/16/14 14:00	10/17/14 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 12:05	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>35</b>		17	6.7	ug/Kg	☼	10/13/14 14:00	10/14/14 13:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.81</b>		0.200	0.200	SU			10/15/14 16:29	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(5-8)-093014**

**Lab Sample ID: 500-85173-7**

**Date Collected: 09/30/14 14:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**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	☼		10/11/14 20:16	1
Benzene	<5.3		5.3	0.73	ug/Kg	☼		10/11/14 20:16	1
Bromodichloromethane	<5.3		5.3	0.92	ug/Kg	☼		10/11/14 20:16	1
Bromoform	<5.3		5.3	1.2	ug/Kg	☼		10/11/14 20:16	1
Bromomethane	<5.3	*	5.3	1.6	ug/Kg	☼		10/11/14 20:16	1
Carbon disulfide	<5.3		5.3	0.80	ug/Kg	☼		10/11/14 20:16	1
Carbon tetrachloride	<5.3		5.3	0.97	ug/Kg	☼		10/11/14 20:16	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	☼		10/11/14 20:16	1
Chloroethane	<5.3	*	5.3	1.5	ug/Kg	☼		10/11/14 20:16	1
Chloroform	<5.3		5.3	0.61	ug/Kg	☼		10/11/14 20:16	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	☼		10/11/14 20:16	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	☼		10/11/14 20:16	1
cis-1,3-Dichloropropene	<5.3		5.3	0.70	ug/Kg	☼		10/11/14 20:16	1
Dibromochloromethane	<5.3		5.3	0.93	ug/Kg	☼		10/11/14 20:16	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	☼		10/11/14 20:16	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		10/11/14 20:16	1
1,1-Dichloroethene	<5.3		5.3	0.86	ug/Kg	☼		10/11/14 20:16	1
1,2-Dichloropropane	<5.3		5.3	0.81	ug/Kg	☼		10/11/14 20:16	1
1,3-Dichloropropene, Total	<5.3		5.3	0.70	ug/Kg	☼		10/11/14 20:16	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	☼		10/11/14 20:16	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	☼		10/11/14 20:16	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	☼		10/11/14 20:16	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		10/11/14 20:16	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	☼		10/11/14 20:16	1
Methyl tert-butyl ether	<5.3		5.3	0.88	ug/Kg	☼		10/11/14 20:16	1
Styrene	<5.3		5.3	0.70	ug/Kg	☼		10/11/14 20:16	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	☼		10/11/14 20:16	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	☼		10/11/14 20:16	1
Toluene	<5.3		5.3	0.75	ug/Kg	☼		10/11/14 20:16	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	☼		10/11/14 20:16	1
trans-1,3-Dichloropropene	<5.3		5.3	0.96	ug/Kg	☼		10/11/14 20:16	1
1,1,1-Trichloroethane	<5.3		5.3	0.80	ug/Kg	☼		10/11/14 20:16	1
1,1,2-Trichloroethane	<5.3		5.3	0.73	ug/Kg	☼		10/11/14 20:16	1
Trichloroethene	<5.3		5.3	0.88	ug/Kg	☼		10/11/14 20:16	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	☼		10/11/14 20:16	1
Xylenes, Total	<11		11	0.48	ug/Kg	☼		10/11/14 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		10/11/14 20:16	1
Dibromofluoromethane	104		75 - 120		10/11/14 20:16	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		10/11/14 20:16	1
Toluene-d8 (Surr)	98		75 - 122		10/11/14 20:16	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	☼	10/10/14 07:06	10/17/14 13:18	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
1,3-Dichlorobenzene	<170		170	37	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(5-8)-093014**

**Lab Sample ID: 500-85173-7**

**Date Collected: 09/30/14 14:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**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	☼	10/10/14 07:06	10/17/14 13:18	1
2,4,6-Trichlorophenol	<330		330	110	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2,4-Dichlorophenol	<330		330	79	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2,4-Dinitrophenol	<670		670	590	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2,4-Dinitrotoluene	<170		170	53	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2,6-Dinitrotoluene	<170		170	65	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2-Chlorophenol	<170		170	57	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2-Methylnaphthalene	<33		33	6.1	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2-Methylphenol	<170		170	53	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
2-Nitrophenol	<330		330	79	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
3 & 4 Methylphenol	<170		170	55	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
3,3'-Dichlorobenzidine	<170		170	47	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
4,6-Dinitro-2-methylphenol	<330		330	270	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
4-Chloroaniline	<670		670	160	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
4-Nitroaniline	<330		330	140	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
4-Nitrophenol	<670		670	320	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Acenaphthene	<33		33	6.0	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Acenaphthylene	<33		33	4.4	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Anthracene	<33		33	5.6	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Benzo[a]anthracene</b>	<b>19 J</b>		33	4.5	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Benzo[a]pyrene</b>	<b>26 J</b>		33	6.4	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Benzo[b]fluoranthene</b>	<b>43</b>		33	7.2	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Benzo[g,h,i]perylene</b>	<b>29 J</b>		33	11	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Benzo[k]fluoranthene</b>	<b>14 J</b>		33	9.8	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Bis(2-ethylhexyl) phthalate	<170		170	61	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Butyl benzyl phthalate	<170		170	63	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Carbazole	<170		170	86	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Chrysene</b>	<b>29 J</b>		33	9.1	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Dibenz(a,h)anthracene</b>	<b>7.0 J</b>		33	6.4	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Dibenzofuran	<170		170	39	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Diethyl phthalate	<170		170	56	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Dimethyl phthalate	<170		170	43	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Di-n-octyl phthalate	<170		170	54	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Fluoranthene</b>	<b>35</b>		33	6.2	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Fluorene	<33		33	4.7	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Hexachlorobenzene	<67		67	7.7	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Hexachlorobutadiene	<170		170	52	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Hexachlorocyclopentadiene	<670		670	190	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Hexachloroethane	<170		170	51	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(5-8)-093014**

**Lab Sample ID: 500-85173-7**

**Date Collected: 09/30/14 14:05**

**Matrix: Solid**

**Date Received: 10/01/14 08:00**

**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>20</b>	<b>J</b>	33	8.6	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Isophorone	<170		170	37	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Naphthalene	<33		33	5.1	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Nitrobenzene	<33		33	8.3	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
N-Nitrosodi-n-propylamine	<170		170	41	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
N-Nitrosodiphenylamine	<170		170	39	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Pentachlorophenol	<670		670	530	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Phenanthrene</b>	<b>22</b>	<b>J</b>	33	4.6	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
Phenol	<170		170	74	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<b>Pyrene</b>	<b>43</b>		33	6.6	ug/Kg	☼	10/10/14 07:06	10/17/14 13:18	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol</i>	63		35 - 137				10/10/14 07:06	10/17/14 13:18	1
<i>2-Fluorobiphenyl</i>	59		25 - 119				10/10/14 07:06	10/17/14 13:18	1
<i>2-Fluorophenol</i>	48		25 - 110				10/10/14 07:06	10/17/14 13:18	1
<i>Nitrobenzene-d5</i>	35		25 - 115				10/10/14 07:06	10/17/14 13:18	1
<i>Phenol-d5</i>	49		31 - 110				10/10/14 07:06	10/17/14 13:18	1
<i>Terphenyl-d14</i>	82		36 - 134				10/10/14 07:06	10/17/14 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/16/14 08:30	10/17/14 06:39	1
<b>Barium</b>	<b>0.057</b>	<b>J</b>	0.50	0.050	mg/L		10/16/14 08:30	10/17/14 06:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/14 08:30	10/17/14 06:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/16/14 08:30	10/17/14 06:39	1
Chromium	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:39	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:39	1
Copper	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:39	1
<b>Iron</b>	<b>0.42</b>		0.20	0.20	mg/L		10/16/14 08:30	10/17/14 06:39	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/16/14 08:30	10/18/14 22:00	1
<b>Manganese</b>	<b>0.91</b>		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:39	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:39	1
Selenium	<0.050		0.050	0.020	mg/L		10/16/14 08:30	10/18/14 22:00	1
Silver	<0.025		0.025	0.010	mg/L		10/16/14 08:30	10/17/14 06:39	1
Zinc	<0.10		0.10	0.020	mg/L		10/16/14 08:30	10/17/14 06:39	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		10/14/14 09:50	10/20/14 02:01	1
Barium	<0.50		0.50	0.050	mg/L		10/14/14 09:50	10/20/14 02:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/14 09:50	10/20/14 02:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/14/14 09:50	10/20/14 02:01	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 02:01	1
Cobalt	<0.025		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 02:01	1
<b>Copper</b>	<b>0.063</b>		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 02:01	1
<b>Iron</b>	<b>0.38</b>		0.20	0.20	mg/L		10/14/14 09:50	10/20/14 16:33	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		10/14/14 09:50	10/20/14 02:01	1
Manganese	<0.025		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 02:01	1
Nickel	<0.025		0.025	0.010	mg/L		10/14/14 09:50	10/20/14 02:01	1
Selenium	<0.050		0.050	0.020	mg/L		10/14/14 09:50	10/20/14 02:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

**Client Sample ID: MS-6(5-8)-093014**

**Lab Sample ID: 500-85173-7**

Date Collected: 09/30/14 14:05

Matrix: Solid

Date Received: 10/01/14 08:00

**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		10/14/14 09:50	10/20/14 16:33	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.20	0.020	mg/L		10/14/14 09:50	10/20/14 02:01	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	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Arsenic</b>	<b>1.2</b>	<b>J</b>	2.5	0.50	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Barium</b>	<b>3.6</b>		2.5	0.27	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Beryllium</b>	<b>0.28</b>	<b>J</b>	1.0	0.20	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
Cadmium	<0.51		0.51	0.064	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Calcium</b>	<b>140000</b>		51	14	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Chromium</b>	<b>2.7</b>	<b>B</b>	2.5	0.29	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Cobalt</b>	<b>1.6</b>		1.3	0.25	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Copper</b>	<b>2.4</b>	<b>J</b>	2.5	0.51	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Iron</b>	<b>3300</b>		51	21	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Lead</b>	<b>1.5</b>		1.3	0.38	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Magnesium</b>	<b>85000</b>		25	5.2	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Manganese</b>	<b>170</b>		2.5	0.51	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Nickel</b>	<b>3.1</b>		2.5	0.51	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Potassium</b>	<b>470</b>		130	7.6	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
Selenium	<2.5		2.5	0.90	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
Silver	<1.3		1.3	0.092	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Sodium</b>	<b>260</b>		250	34	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
Thallium	<2.5		2.5	1.1	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Vanadium</b>	<b>3.9</b>		1.3	0.19	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5
<b>Zinc</b>	<b>4.5</b>	<b>J B</b>	5.1	1.0	mg/Kg	☼	10/14/14 09:45	10/21/14 14:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/16/14 14:00	10/17/14 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/15/14 12:30	10/16/14 12:07	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	☼	10/13/14 14:00	10/14/14 14:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.33</b>		0.200	0.200	SU			10/15/14 16:29	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

## 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.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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.
^	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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Orland Park - WO 090

TestAmerica Job ID: 500-85173-1

## 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
8260B		Water	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-85173 COC

Report To	(optional)	Bill To	(optional)
Contact:	S. Babisukumar	Contact:	SAME
Company:	Weston Solutions Inc	Company:	
Address:	300 Plaza Circle, Ste 202	Address:	
Address:	Mundeville, IL 60060	Address:	
Phone:	224-864-7250	Phone:	
Fax:	224-864-7236	Fax:	
E-Mail:		PO#/Reference#	

## Chain of Custody Record

Lab Job #: 500-85173

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

Page 1 of 1

Temperature °C of Cooler: 2/1/2/4

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston Solutions Inc				7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		Matrix		Comments			
1001 090-Orland Park, IL				Date	Time	# of Containers	Matrix				
Project Location/State		Lab PM									
Orland Park, IL		D. Wright									
Sampler		Lab PM									
M. Dooheny-Skubic		D. Wright									
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals	TRU/SLIP Metals	pH
1		MS-4(0-5)-093014	9-30-14	1305	2	S	X	X	X	X	X
2		MS-4(5-9)-093014		1310	2	S					
3		MS-5(0-5)-093014		1325	2	S					
4		MS-5(5-10)-093014		1330	2	S					
5		MS-5(5-10)-093014D		1330	2	S					
6		MS-6(0-5)-093014		1400	2	S					
7		MS-6(5-8)-093014	9-30-14	1405	2	S	X	X	X	X	X
M/S											
8		TRIP BLANK	9-30-14	1435	2	W	X				
9		MS-4-093014	9-30-14	1435	W		X	X	X		

Turnaround Time Required (Business Days)

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

Requested Due Date \_\_\_\_\_

Sample Disposal

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<i>M. Dooheny-Skubic</i>	Weston	9-30-14	1528	<i>David Kulis</i>	TA	9/30/14	1528
<i>David Kulis</i>	TA	9/30/14	1610	<i>Sherrill</i>	TA-CRT	10/1/14	0800
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

Lab Comments: