



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd Office Phone Number, if available: \_\_\_\_\_

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

84-120 McHenry Road (ISGS Site No. 2646-23)

City: Wheeling 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: 42.140777771 Longitude: -87.932701774  
(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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd

Latitude: 42.140777771 Longitude: -87.932701774

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 WC-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2646-23. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL 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 REPORT - JOB ID: 500-94624-1.  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

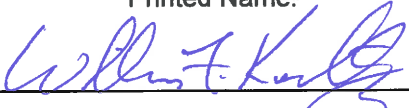
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

25 June 2015

Date:



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

**Summary Table of ISGS Site No. 2646-23**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

|                             |                  |                                                      |
|-----------------------------|------------------|------------------------------------------------------|
| <b>Field Sample ID</b>      | WC-2(0-1)-041315 | <b>Soil Reference<br/>Concentrations<sup>A</sup></b> |
| <b>Sample Date</b>          | 4/13/2015        |                                                      |
| <b>Location ID</b>          | WC-2             |                                                      |
| <b>Depth</b>                | 0 - 1            |                                                      |
| <b>ISGS Site No.</b>        | 2646-23          |                                                      |
| <b>Parameter</b>            |                  |                                                      |
| Laboratory pH (s.u.)        | 8.54             | <6.25,>9.0                                           |
| <b>VOCs (ug/kg)</b>         |                  |                                                      |
| Acetone                     | ND               | 25000                                                |
| Methyl ethyl ketone         | ND               | ---                                                  |
| <b>SVOCs (ug/kg)</b>        |                  |                                                      |
| Acenaphthene                | ND               | 570000                                               |
| Anthracene                  | 63               | 1.20E+07                                             |
| Benzo(a)anthracene          | 360              | 900 / 1100 / 1800                                    |
| Benzo(a)pyrene              | 410              | 90 / 1300 / 2100                                     |
| Benzo(b)fluoranthene        | 520              | 900 / 1500 / 2100                                    |
| Benzo(g,h,i)perylene        | 280              | ---                                                  |
| Benzo(k)fluoranthene        | 400              | 9000                                                 |
| bis(2-Ethylhexyl)phthalate  | ND               | 46000                                                |
| Carbazole                   | ND               | 600                                                  |
| Chrysene                    | 460              | 88000                                                |
| Dibenzo(a,h)anthracene      | ND               | 90 / 200 / 420                                       |
| Dibenzofuran                | ND               | ---                                                  |
| Di-N-Octyl phthalate        | ND               | 1600000                                              |
| Fluoranthene                | 960              | 3100000                                              |
| Fluorene                    | ND               | 560000                                               |
| Indeno(1,2,3-cd)pyrene      | 290              | 900                                                  |
| Naphthalene, SVOC           | ND               | 900 / 900 / 1600                                     |
| Phenanthrene                | 370              | ---                                                  |
| Pyrene                      | 830              | 2300000                                              |
| <b>Total Metals (mg/kg)</b> |                  |                                                      |
| Antimony, Total             | ND               | 5                                                    |
| Arsenic, Total              | 7.1 J            | 11.3 / 13                                            |
| Barium, Total               | 95 J             | 1500                                                 |
| Beryllium, Total            | 0.78             | 22                                                   |
| Cadmium, Total              | 0.22             | 5.2                                                  |
| Calcium, Total              | 17000 J          | ---                                                  |
| Chromium, Total             | 20 J             | 21                                                   |
| Cobalt, Total               | 11               | 20                                                   |
| Copper, Total               | 22               | 2900                                                 |
| Iron, Total                 | 23000 J          | 15000 / 15900                                        |
| Lead, Total                 | 37 J             | 107                                                  |
| Magnesium, Total            | 11000 J          | 325000                                               |
| Manganese, Total            | 430 J-           | 630 / 636                                            |
| Mercury, Total              | 0.045            | 0.89                                                 |
| Nickel, Total               | 27               | 100                                                  |
| Potassium, Total            | 1400 J           | ---                                                  |
| Selenium, Total             | ND               | 1.3                                                  |
| Silver, Total               | ND               | 4.4                                                  |
| Sodium, Total               | 1900 J           |                                                      |
| Thallium, Total             | ND               | 2.6                                                  |
| Vanadium, Total             | 30               | 550                                                  |
| Zinc, Total                 | 89 J             | 5100                                                 |
| <b>TCLP Metals (mg/l)</b>   |                  |                                                      |
| Arsenic, TCLP               | ND               | 0.05                                                 |
| Barium, TCLP                | 0.28 J           | 2                                                    |
| Cadmium, TCLP               | ND               | 0.005                                                |
| Cobalt, TCLP                | ND               | 1                                                    |
| Copper, TCLP                | 0.012 J          | 0.65                                                 |
| Iron, TCLP                  | 0.26             | 5                                                    |
| Lead, TCLP                  | ND               | 0.0075                                               |
| Manganese, TCLP             | 1.2              | 0.15                                                 |
| Nickel, TCLP                | ND               | 0.1                                                  |
| Zinc, TCLP                  | 0.06 J           | 5                                                    |

**Summary Table of ISGS Site No. 2646-23**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

| Field Sample ID    | WC-2(0-1)-041315 | Soil Reference Concentrations <sup>A</sup> |
|--------------------|------------------|--------------------------------------------|
| Sample Date        | 4/13/2015        |                                            |
| Location ID        | WC-2             |                                            |
| Depth              | 0 - 1            |                                            |
| ISGS Site No.      | 2646-23          |                                            |
| Parameter          |                  |                                            |
| SPLP Metals (mg/l) |                  |                                            |
| Arsenic, SPLP      | 0.051            | 0.05                                       |
| Barium, SPLP       | 0.98             | 2                                          |
| Beryllium, SPLP    | 0.0073           | 0.004                                      |
| Cadmium, SPLP      | 0.0025 J         | 0.005                                      |
| Chromium, SPLP     | 0.22             | 0.1                                        |
| Cobalt, SPLP       | 0.038            | 1                                          |
| Copper, SPLP       | 0.15             | 0.65                                       |
| Iron, SPLP         | 200 J+           | 5                                          |
| Lead, SPLP         | 0.13             | 0.0075                                     |
| Manganese, SPLP    | 0.91             | 0.15                                       |
| Mercury, SPLP      | ND               | 0.002                                      |
| Nickel, SPLP       | 0.13             | 0.1                                        |
| Zinc, SPLP         | 0.72             | 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 low.

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: 500-94624-1  
Client Project/Site: IDOT - Wheeling - WO 014

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

Attn: Mr. S. Babusukumar

*Jodie Bracken*

Authorized for release by:  
4/23/2015 5:23:12 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: WC-2(0-1)-041315**

**Lab Sample ID: 500-94624-7**

**Date Collected: 04/13/15 12:30**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 78.0**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <6.4   |           | 6.4 | 2.8  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Benzene                    | <6.4   |           | 6.4 | 0.88 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Bromodichloromethane       | <6.4   |           | 6.4 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Bromoform                  | <6.4   |           | 6.4 | 1.5  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Bromomethane               | <6.4   |           | 6.4 | 1.9  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Carbon disulfide           | <6.4   |           | 6.4 | 0.96 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Carbon tetrachloride       | <6.4   |           | 6.4 | 1.2  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Chlorobenzene              | <6.4   |           | 6.4 | 0.65 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Chloroethane               | <6.4   |           | 6.4 | 1.7  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Chloroform                 | <6.4   |           | 6.4 | 0.74 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Chloromethane              | <6.4   |           | 6.4 | 1.3  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| cis-1,2-Dichloroethene     | <6.4   |           | 6.4 | 0.91 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| cis-1,3-Dichloropropene    | <6.4   |           | 6.4 | 0.84 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Dibromochloromethane       | <6.4   |           | 6.4 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,1-Dichloroethane         | <6.4   |           | 6.4 | 1.0  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,2-Dichloroethane         | <6.4   |           | 6.4 | 0.95 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,1-Dichloroethene         | <6.4   |           | 6.4 | 1.0  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,2-Dichloropropane        | <6.4   |           | 6.4 | 0.97 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,3-Dichloropropene, Total | <6.4   |           | 6.4 | 0.84 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Ethylbenzene               | <6.4   |           | 6.4 | 1.3  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 2-Hexanone                 | <6.4   |           | 6.4 | 1.8  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Methylene Chloride         | <6.4   |           | 6.4 | 1.7  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Methyl Ethyl Ketone        | <6.4   |           | 6.4 | 2.3  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| methyl isobutyl ketone     | <6.4   |           | 6.4 | 1.7  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Methyl tert-butyl ether    | <6.4   |           | 6.4 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Styrene                    | <6.4   |           | 6.4 | 0.84 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,1,2,2-Tetrachloroethane  | <6.4   |           | 6.4 | 1.3  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Tetrachloroethene          | <6.4   |           | 6.4 | 0.98 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Toluene                    | <6.4   |           | 6.4 | 0.90 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| trans-1,2-Dichloroethene   | <6.4   |           | 6.4 | 0.88 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| trans-1,3-Dichloropropene  | <6.4   |           | 6.4 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,1,1-Trichloroethane      | <6.4   |           | 6.4 | 0.96 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| 1,1,2-Trichloroethane      | <6.4   |           | 6.4 | 0.87 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Trichloroethene            | <6.4   |           | 6.4 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Vinyl chloride             | <6.4   |           | 6.4 | 1.3  | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |
| Xylenes, Total             | <13    |           | 13  | 0.58 | ug/Kg | ☼ |          | 04/17/15 14:56 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 98        |           | 70 - 122 |          | 04/17/15 14:56 | 1       |
| Dibromofluoromethane         | 102       |           | 75 - 120 |          | 04/17/15 14:56 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 70 - 134 |          | 04/17/15 14:56 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 75 - 122 |          | 04/17/15 14:56 | 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 | 46  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 1,2-Dichlorobenzene          | <210   |           | 210 | 51  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 1,3-Dichlorobenzene          | <210   |           | 210 | 48  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 1,4-Dichlorobenzene          | <210   |           | 210 | 54  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2,2'-oxybis[1-chloropropane] | <210   |           | 210 | 49  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: WC-2(0-1)-041315**

**Lab Sample ID: 500-94624-7**

**Date Collected: 04/13/15 12:30**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 78.0**

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

| Analyte                     | Result     | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | <420       |           | 420 | 97  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2,4,6-Trichlorophenol       | <420       |           | 420 | 150 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2,4-Dichlorophenol          | <420       |           | 420 | 100 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2,4-Dimethylphenol          | <420       |           | 420 | 160 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2,4-Dinitrophenol           | <860       |           | 860 | 750 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2,4-Dinitrotoluene          | <210       |           | 210 | 67  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2,6-Dinitrotoluene          | <210       |           | 210 | 83  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2-Chloronaphthalene         | <210       |           | 210 | 47  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2-Chlorophenol              | <210       |           | 210 | 72  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2-Methylnaphthalene         | <42        |           | 42  | 7.8 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2-Methylphenol              | <210       |           | 210 | 68  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2-Nitroaniline              | <210       |           | 210 | 57  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 2-Nitrophenol               | <420       |           | 420 | 100 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 3 & 4 Methylphenol          | <210       |           | 210 | 71  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 3,3'-Dichlorobenzidine      | <210       |           | 210 | 59  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 3-Nitroaniline              | <420       |           | 420 | 130 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 4,6-Dinitro-2-methylphenol  | <420       |           | 420 | 340 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 4-Bromophenyl phenyl ether  | <210       |           | 210 | 56  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 4-Chloro-3-methylphenol     | <420       |           | 420 | 140 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 4-Chloroaniline             | <860       |           | 860 | 200 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 4-Chlorophenyl phenyl ether | <210       |           | 210 | 50  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 4-Nitroaniline              | <420       |           | 420 | 180 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| 4-Nitrophenol               | <860       |           | 860 | 400 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Acenaphthene                | <42        |           | 42  | 7.6 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Acenaphthylene              | <42        |           | 42  | 5.6 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Anthracene</b>           | <b>63</b>  |           | 42  | 7.1 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>360</b> |           | 42  | 5.7 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>410</b> |           | 42  | 8.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>520</b> |           | 42  | 9.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>280</b> |           | 42  | 14  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>400</b> |           | 42  | 12  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Bis(2-chloroethoxy)methane  | <210       |           | 210 | 43  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Bis(2-chloroethyl)ether     | <210       |           | 210 | 64  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Bis(2-ethylhexyl) phthalate | <210       |           | 210 | 77  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Butyl benzyl phthalate      | <210       |           | 210 | 81  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Carbazole                   | <210       |           | 210 | 110 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Chrysene</b>             | <b>460</b> |           | 42  | 12  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Dibenz(a,h)anthracene       | <42        |           | 42  | 8.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Dibenzofuran                | <210       |           | 210 | 50  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Diethyl phthalate           | <210       |           | 210 | 72  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Dimethyl phthalate          | <210       |           | 210 | 55  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Di-n-butyl phthalate        | <210       |           | 210 | 65  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Di-n-octyl phthalate        | <210       |           | 210 | 69  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| <b>Fluoranthene</b>         | <b>960</b> |           | 42  | 7.9 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Fluorene                    | <42        |           | 42  | 6.0 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Hexachlorobenzene           | <86        |           | 86  | 9.8 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Hexachlorobutadiene         | <210       |           | 210 | 67  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Hexachlorocyclopentadiene   | <860       |           | 860 | 240 | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |
| Hexachloroethane            | <210       |           | 210 | 64  | ug/Kg | ☼ | 04/16/15 07:38 | 04/17/15 14:27 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: WC-2(0-1)-041315**

**Lab Sample ID: 500-94624-7**

Date Collected: 04/13/15 12:30

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 78.0

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

| Analyte                       | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| <b>Indeno[1,2,3-cd]pyrene</b> | <b>290</b>       |                  | 42            | 11  | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Isophorone                    | <210             |                  | 210           | 48  | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Naphthalene                   | <42              |                  | 42            | 6.5 | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Nitrobenzene                  | <42              |                  | 42            | 11  | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| N-Nitrosodi-n-propylamine     | <210             |                  | 210           | 52  | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| N-Nitrosodiphenylamine        | <210             |                  | 210           | 50  | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Pentachlorophenol             | <860             |                  | 860           | 680 | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| <b>Phenanthrene</b>           | <b>370</b>       |                  | 42            | 5.9 | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Phenol                        | <210             |                  | 210           | 94  | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| <b>Pyrene</b>                 | <b>830</b>       |                  | 42            | 8.4 | ug/Kg | ☼ | 04/16/15 07:38  | 04/17/15 14:27  | 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          | 51               |                  | 35 - 137      |     |       |   | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| 2-Fluorobiphenyl              | 37               |                  | 25 - 119      |     |       |   | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| 2-Fluorophenol                | 42               |                  | 25 - 110      |     |       |   | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Nitrobenzene-d5               | 37               |                  | 25 - 115      |     |       |   | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Phenol-d5                     | 34               |                  | 31 - 110      |     |       |   | 04/16/15 07:38  | 04/17/15 14:27  | 1              |
| Terphenyl-d14                 | 61               |                  | 36 - 134      |     |       |   | 04/16/15 07:38  | 04/17/15 14:27  | 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 |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| <b>Barium</b>    | <b>0.28</b>  | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Chromium         | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Cobalt           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| <b>Copper</b>    | <b>0.012</b> | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| <b>Iron</b>      | <b>0.26</b>  |           | 0.20   | 0.20   | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Lead             | <0.0075      |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| <b>Manganese</b> | <b>1.2</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Nickel           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| Silver           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 1       |
| <b>Zinc</b>      | <b>0.060</b> | <b>J</b>  | 0.10   | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:52 | 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 |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Barium</b>    | <b>0.98</b>   |           | 0.50   | 0.050  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Beryllium</b> | <b>0.0073</b> |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Cadmium</b>   | <b>0.0025</b> | <b>J</b>  | 0.0050 | 0.0020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Chromium</b>  | <b>0.22</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Cobalt</b>    | <b>0.038</b>  |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Copper</b>    | <b>0.15</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Iron</b>      | <b>200</b>    |           | 0.20   | 0.20   | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Lead</b>      | <b>0.13</b>   |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Manganese</b> | <b>0.91</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Nickel</b>    | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: WC-2(0-1)-041315**

**Lab Sample ID: 500-94624-7**

Date Collected: 04/13/15 12:30

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |
| <b>Zinc</b> | <b>0.72</b> |           | 0.10  | 0.020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:45 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.2         |           | 1.2  | 0.25  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Arsenic</b>   | <b>7.1</b>   |           | 0.60 | 0.28  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Barium</b>    | <b>95</b>    |           | 0.60 | 0.11  | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 22:13 | 1       |
| <b>Beryllium</b> | <b>0.78</b>  |           | 0.24 | 0.052 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Cadmium</b>   | <b>0.22</b>  |           | 0.12 | 0.035 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Calcium</b>   | <b>17000</b> | <b>B</b>  | 12   | 3.8   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Chromium</b>  | <b>20</b>    |           | 0.60 | 0.10  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Cobalt</b>    | <b>11</b>    |           | 0.30 | 0.067 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Copper</b>    | <b>22</b>    |           | 0.60 | 0.13  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Iron</b>      | <b>23000</b> |           | 12   | 4.6   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Lead</b>      | <b>37</b>    |           | 0.30 | 0.15  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Magnesium</b> | <b>11000</b> | <b>B</b>  | 6.0  | 2.4   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Manganese</b> | <b>430</b>   |           | 0.60 | 0.12  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Nickel</b>    | <b>27</b>    |           | 0.60 | 0.16  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Potassium</b> | <b>1400</b>  |           | 30   | 4.9   | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 22:13 | 1       |
| Selenium         | <0.60        |           | 0.60 | 0.30  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| Silver           | <0.30        |           | 0.30 | 0.070 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Sodium</b>    | <b>1900</b>  | <b>B</b>  | 60   | 7.9   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| Thallium         | <0.60        |           | 0.60 | 0.29  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Vanadium</b>  | <b>30</b>    |           | 0.30 | 0.087 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 22:00 | 1       |
| <b>Zinc</b>      | <b>89</b>    | <b>B</b>  | 1.2  | 0.38  | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 22:13 | 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 |   | 04/20/15 13:30 | 04/21/15 09:13 | 1       |

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

| Analyte | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20  | F1        | 0.20 | 0.20 | ug/L |   | 04/20/15 13:30 | 04/21/15 10:08 | 1       |

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

| Analyte        | Result    | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| <b>Mercury</b> | <b>45</b> |           | 20 | 7.1 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 11:00 | 1       |

**General Chemistry**

| Analyte   | Result      | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| <b>pH</b> | <b>8.54</b> |           | 0.200 | 0.200 | SU   |   |          | 04/21/15 12:48 | 1       |

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |
| F2        | MS/MSD RPD exceeds control limits                    |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                              |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E         | Result exceeded calibration range.                                                                             |
| X         | Surrogate is outside control limits                                                                            |

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| F2        | MS/MSD RPD exceeds control limits                                                                                                                         |
| B         | Compound was found in the blank and sample.                                                                                                               |
| F3        | Duplicate RPD exceeds the control limit                                                                                                                   |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

## 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           | 04-30-16        |

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             |

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# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60  
Phone: 708.534.5200 Fax: 708.534



500-94624 COC

Report To (optional)  
Contact: S. Babuskumar  
Company: Weston Solutions  
Address: 300 Plaza Club  
Address: Mundelein IL  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-94624

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

Page 3 of \_\_\_\_\_

Temperature °C of Cooler: 33, 35, 29, 3, 0

| Client                          |        | Client Project #            |                 | Preservative    |                 | VOCs   | SVOCs | Metals | Temp/Sp/PH | pH | Comments                                                                                                                                                                                    |
|---------------------------------|--------|-----------------------------|-----------------|-----------------|-----------------|--------|-------|--------|------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name                    |        | Lab Project #               |                 | Parameter       |                 |        |       |        |            |    |                                                                                                                                                                                             |
| Project Location/State          |        | Lab PM                      |                 |                 |                 |        |       |        |            |    |                                                                                                                                                                                             |
| <del>Weston</del> <u>Weston</u> |        | <u>1DOT 014</u>             |                 |                 |                 |        |       |        |            |    | Preservative Key<br>1. HCL, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |
| <u>Wheating</u>                 |        | <u>Wheating, IL</u>         |                 |                 |                 |        |       |        |            |    |                                                                                                                                                                                             |
| Sampler <u>Colomb</u>           |        | Lab PM <u>Wright</u>        |                 |                 |                 |        |       |        |            |    |                                                                                                                                                                                             |
| Lab ID                          | MS/MSD | Sample ID                   | Date            | Time            | # of Containers | Matrix |       |        |            |    |                                                                                                                                                                                             |
|                                 |        | <del>AA-1(0-5)-041315</del> | <del>4/13</del> | <del>0845</del> |                 |        |       |        |            |    |                                                                                                                                                                                             |
|                                 |        | <del>AB-1(0-1)-041315</del> | <del>4/13</del> | <del>0855</del> |                 |        |       |        |            |    |                                                                                                                                                                                             |
| 1                               |        | LP-3(0-5)-041315            | 4/13            | 1200            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 2                               |        | MB-1(0-5)-041315            | 4/13            | 1155            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 3                               |        | MB-2(0-1)-041315            | 4/13            | 1150            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 4                               |        | MB-4(0-1)-041315            | 4/13            | 1135            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 5                               |        | MB-5(0-1)-041315            | 4/13            | 1130            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 6                               |        | MB-3(0-5)-041315            | 4/13            | 1140            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 7                               |        | WC-2(0-1)-041315            | 4/13            | 1230            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 8                               |        | WC-1(0-5)-041315            | 4/13            | 1235            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days 5<sup>th</sup>rd Other  
 Requested Due Date \_\_\_\_\_

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

|                                                                                               |                                                                                       |                       |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------|
| Relinquished By <u>[Signature]</u> Company <u>Weston</u> Date <u>4/13/15</u> Time <u>1500</u> | Received By <u>[Signature]</u> Company <u>TA</u> Date <u>4/13/15</u> Time <u>1500</u> | Lab Courier <u>TA</u> |
| Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>4/14/15</u> Time <u>1300</u>     | Received By <u>[Signature]</u> Company <u>TA</u> Date <u>4/14/15</u> Time <u>1300</u> | Shipped _____         |
| Relinquished By _____ Company _____ Date _____ Time _____                                     | Received By _____ Company _____ Date _____ Time _____                                 | 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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd Office Phone Number, if available: \_\_\_\_\_

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

125 McHenry Road (ISGS Site No. 2646-24)

City: Wheeling 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: 42.140557576 Longitude: -87.932169193

(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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd

Latitude: 42.140557576 Longitude: -87.932169193

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 MB-1 THROUGH MB-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2646-24. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL 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 REPORT - JOB ID: 500-94624-1.  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

*William F. Karlovitz*

*25 June 2015*

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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

**Summary Table of ISGS Site No. 2646-24**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

| Field Sample ID             | MB-1(0-5)-041315      | MB-2(0-1)-041315 | MB-3(0-5)-041315 | Soil Reference Concentrations <sup>A</sup> |
|-----------------------------|-----------------------|------------------|------------------|--------------------------------------------|
| Sample Date                 | 4/13/2015             | 4/13/2015        | 4/13/2015        |                                            |
| Location ID                 | MB-1                  | MB-2             | MB-3             |                                            |
| Depth                       | 0 - 5                 | 0 - 1            | 0 - 5            |                                            |
| ISGS Site No.               | 2646-24               | 2646-24          | 2646-24          |                                            |
| <b>Parameter</b>            |                       |                  |                  |                                            |
| Laboratory pH (s.u.)        | 8.8                   | 8.81             | 8.82             | <6.25,>9.0                                 |
| <b>VOCs (ug/kg)</b>         | <b>No Exceedances</b> |                  |                  |                                            |
| <b>SVOCs (ug/kg)</b>        |                       |                  |                  |                                            |
| Benzo(a)pyrene              | 420                   | 270              | 230              | 90 / 1300 / 2100                           |
| <b>Total Metals (mg/kg)</b> |                       |                  |                  |                                            |
| Antimony, Total             | ND                    | ND               | ND               | 5                                          |
| Arsenic, Total              | 3.4 J                 | 9 J              | 10 J             | 11.3 / 13                                  |
| Barium, Total               | 37 J                  | 65 J             | 64 J             | 1500                                       |
| Beryllium, Total            | 0.38                  | 0.6              | 0.64             | 22                                         |
| Cadmium, Total              | 0.19                  | 0.67             | 0.33             | 5.2                                        |
| Calcium, Total              | 80000 J               | 27000 J          | 35000 J          | ---                                        |
| Chromium, Total             | 9.4 J                 | 17 J             | 17 J             | 21                                         |
| Cobalt, Total               | 4.9                   | 9.8              | 13               | 20                                         |
| Copper, Total               | 10                    | 62               | 26               | 2900                                       |
| Iron, Total                 | 9200 J                | 18000 J          | 20000 J          | 15000 / 15900                              |
| Lead, Total                 | 100 J                 | 80 J             | 70 J             | 107                                        |
| Magnesium, Total            | 40000 J               | 16000 J          | 20000 J          | 325000                                     |
| Manganese, Total            | 330 J-                | 450 J-           | 650 J-           | 630 / 636                                  |
| Mercury, Total              | 0.045                 | 0.038            | 0.016 J          | 0.89                                       |
| Nickel, Total               | 11                    | 23               | 27               | 100                                        |
| Potassium, Total            | 1000 J                | 1600 J           | 1600 J           | ---                                        |
| Selenium, Total             | ND                    | 0.42 J           | 0.37 J           | 1.3                                        |
| Silver, Total               | ND                    | ND               | ND               | 4.4                                        |
| Sodium, Total               | 790 J                 | 1200 J           | 1600 J           |                                            |
| Thallium, Total             | ND                    | ND               | ND               | 2.6                                        |
| Vanadium, Total             | 14                    | 24               | 25               | 550                                        |
| Zinc, Total                 | 45 J                  | 110 J            | 85 J             | 5100                                       |
| <b>TCLP Metals (mg/l)</b>   |                       |                  |                  |                                            |
| Arsenic, TCLP               | ND                    | 0.011 J          | ND               | 0.05                                       |
| Barium, TCLP                | 0.45 J                | 0.37 J           | 0.34 J           | 2                                          |
| Cadmium, TCLP               | 0.0026 J              | ND               | ND               | 0.005                                      |
| Cobalt, TCLP                | 0.026                 | ND               | ND               | 1                                          |
| Copper, TCLP                | 0.011 J               | 0.016 J          | 0.011 J          | 0.65                                       |
| Iron, TCLP                  | 0.23                  | ND               | ND               | 5                                          |
| Lead, TCLP                  | 0.045                 | ND               | 0.0092           | 0.0075                                     |
| Manganese, TCLP             | 7.5                   | 0.66             | 0.13             | 0.15                                       |
| Nickel, TCLP                | 0.019 J               | ND               | ND               | 0.1                                        |
| Zinc, TCLP                  | 0.17                  | 0.09 J           | 0.09 J           | 5                                          |
| <b>SPLP Metals (mg/l)</b>   |                       |                  |                  |                                            |
| Arsenic, SPLP               | 0.025 J               | 0.057            | 0.042 J          | 0.05                                       |
| Barium, SPLP                | 0.36 J                | 0.58             | 0.49 J           | 2                                          |
| Beryllium, SPLP             | ND                    | 0.0056           | 0.0048           | 0.004                                      |
| Cadmium, SPLP               | ND                    | ND               | ND               | 0.005                                      |
| Chromium, SPLP              | 0.087                 | 0.15             | 0.13             | 0.1                                        |
| Cobalt, SPLP                | 0.027                 | 0.036            | 0.034            | 1                                          |
| Copper, SPLP                | 0.081                 | 0.21             | 0.13             | 0.65                                       |
| Iron, SPLP                  | 73 J+                 | 140 J+           | 120 J+           | 5                                          |
| Lead, SPLP                  | 0.33                  | 0.18             | 0.47             | 0.0075                                     |
| Manganese, SPLP             | 1                     | 1                | 0.89             | 0.15                                       |
| Mercury, SPLP               | ND                    | ND               | ND               | 0.002                                      |
| Nickel, SPLP                | 0.07                  | 0.12             | 0.11             | 0.1                                        |
| Zinc, SPLP                  | 0.35                  | 0.61             | 0.6              | 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 low.

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: 500-94624-1

Client Project/Site: IDOT - Wheeling - WO 014

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

*Jodie Bracken*

Authorized for release by:

4/23/2015 5:23:12 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

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?



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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 - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-1(0-5)-041315**

**Lab Sample ID: 500-94624-2**

Date Collected: 04/13/15 11:55

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 82.2

## Method: 8260B - VOC

| Analyte                    | Result     | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|------------|-----------|-----|------|-------|---|----------|----------------|---------|
| <b>Acetone</b>             | <b>36</b>  |           | 6.1 | 2.6  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Benzene                    | <6.1       |           | 6.1 | 0.83 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Bromodichloromethane       | <6.1       |           | 6.1 | 1.0  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Bromoform                  | <6.1       |           | 6.1 | 1.4  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Bromomethane               | <6.1       |           | 6.1 | 1.8  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Carbon disulfide           | <6.1       |           | 6.1 | 0.91 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Carbon tetrachloride       | <6.1       |           | 6.1 | 1.1  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Chlorobenzene              | <6.1       |           | 6.1 | 0.62 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Chloroethane               | <6.1       |           | 6.1 | 1.7  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Chloroform                 | <6.1       |           | 6.1 | 0.70 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Chloromethane              | <6.1       |           | 6.1 | 1.3  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| cis-1,2-Dichloroethene     | <6.1       |           | 6.1 | 0.86 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| cis-1,3-Dichloropropene    | <6.1       |           | 6.1 | 0.80 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Dibromochloromethane       | <6.1       |           | 6.1 | 1.1  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,1-Dichloroethane         | <6.1       |           | 6.1 | 0.96 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,2-Dichloroethane         | <6.1       |           | 6.1 | 0.90 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,1,1-Dichloroethene       | <6.1       |           | 6.1 | 0.98 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,2-Dichloropropane        | <6.1       |           | 6.1 | 0.92 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,3-Dichloropropene, Total | <6.1       |           | 6.1 | 0.80 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Ethylbenzene               | <6.1       |           | 6.1 | 1.2  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 2-Hexanone                 | <6.1       |           | 6.1 | 1.8  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Methylene Chloride         | <6.1       |           | 6.1 | 1.6  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| <b>Methyl Ethyl Ketone</b> | <b>8.6</b> |           | 6.1 | 2.2  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| methyl isobutyl ketone     | <6.1       |           | 6.1 | 1.6  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Methyl tert-butyl ether    | <6.1       |           | 6.1 | 1.0  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Styrene                    | <6.1       |           | 6.1 | 0.80 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,1,1,2-Tetrachloroethane  | <6.1       |           | 6.1 | 1.2  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Tetrachloroethene          | <6.1       |           | 6.1 | 0.93 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Toluene                    | <6.1       |           | 6.1 | 0.85 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| trans-1,2-Dichloroethene   | <6.1       |           | 6.1 | 0.84 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| trans-1,3-Dichloropropene  | <6.1       |           | 6.1 | 1.1  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,1,1-Trichloroethane      | <6.1       |           | 6.1 | 0.91 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| 1,1,2-Trichloroethane      | <6.1       |           | 6.1 | 0.83 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Trichloroethene            | <6.1       |           | 6.1 | 1.0  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Vinyl chloride             | <6.1       |           | 6.1 | 1.3  | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |
| Xylenes, Total             | <12        |           | 12  | 0.55 | ug/Kg | ☼ |          | 04/17/15 12:17 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 98        |           | 70 - 122 |          | 04/17/15 12:17 | 1       |
| Dibromofluoromethane         | 102       |           | 75 - 120 |          | 04/17/15 12:17 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 70 - 134 |          | 04/17/15 12:17 | 1       |
| Toluene-d8 (Surr)            | 97        |           | 75 - 122 |          | 04/17/15 12:17 | 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 | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 1,2-Dichlorobenzene          | <200   |           | 200 | 47  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 1,3-Dichlorobenzene          | <200   |           | 200 | 44  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 1,4-Dichlorobenzene          | <200   |           | 200 | 50  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2,2'-oxybis[1-chloropropane] | <200   |           | 200 | 45  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-1(0-5)-041315**

**Lab Sample ID: 500-94624-2**

**Date Collected: 04/13/15 11:55**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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 | 89  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2,4,6-Trichlorophenol       | <390       |           | 390 | 130 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2,4-Dichlorophenol          | <390       |           | 390 | 93  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2,4-Dimethylphenol          | <390       |           | 390 | 150 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2,4-Dinitrophenol           | <790       |           | 790 | 690 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2,4-Dinitrotoluene          | <200       |           | 200 | 62  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2,6-Dinitrotoluene          | <200       |           | 200 | 77  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2-Chloronaphthalene         | <200       |           | 200 | 43  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2-Chlorophenol              | <200       |           | 200 | 67  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2-Methylnaphthalene         | <39        |           | 39  | 7.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2-Methylphenol              | <200       |           | 200 | 63  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2-Nitroaniline              | <200       |           | 200 | 53  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 2-Nitrophenol               | <390       |           | 390 | 92  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 3 & 4 Methylphenol          | <200       |           | 200 | 65  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 3,3'-Dichlorobenzidine      | <200       |           | 200 | 55  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 3-Nitroaniline              | <390       |           | 390 | 120 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 4,6-Dinitro-2-methylphenol  | <390       |           | 390 | 310 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 4-Bromophenyl phenyl ether  | <200       |           | 200 | 52  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 4-Chloro-3-methylphenol     | <390       |           | 390 | 130 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 4-Chloroaniline             | <790       |           | 790 | 180 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 4-Chlorophenyl phenyl ether | <200       |           | 200 | 46  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 4-Nitroaniline              | <390       |           | 390 | 160 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| 4-Nitrophenol               | <790       |           | 790 | 370 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Acenaphthene</b>         | <b>58</b>  |           | 39  | 7.0 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Acenaphthylene              | <39        |           | 39  | 5.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Anthracene</b>           | <b>71</b>  |           | 39  | 6.5 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>440</b> |           | 39  | 5.3 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>420</b> |           | 39  | 7.6 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>600</b> |           | 39  | 8.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>320</b> |           | 39  | 13  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>280</b> |           | 39  | 12  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Bis(2-chloroethoxy)methane  | <200       |           | 200 | 40  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Bis(2-chloroethyl)ether     | <200       |           | 200 | 59  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Bis(2-ethylhexyl) phthalate | <200       |           | 200 | 72  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Butyl benzyl phthalate      | <200       |           | 200 | 74  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Carbazole                   | <200       |           | 200 | 100 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Chrysene</b>             | <b>420</b> |           | 39  | 11  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Dibenz(a,h)anthracene       | <39        |           | 39  | 7.6 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Dibenzofuran                | <200       |           | 200 | 46  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Diethyl phthalate           | <200       |           | 200 | 66  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Dimethyl phthalate          | <200       |           | 200 | 51  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Di-n-butyl phthalate        | <200       |           | 200 | 60  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Di-n-octyl phthalate        | <200       |           | 200 | 64  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Fluoranthene</b>         | <b>950</b> |           | 39  | 7.3 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| <b>Fluorene</b>             | <b>50</b>  |           | 39  | 5.5 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Hexachlorobenzene           | <79        |           | 79  | 9.1 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Hexachlorobutadiene         | <200       |           | 200 | 62  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Hexachlorocyclopentadiene   | <790       |           | 790 | 230 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |
| Hexachloroethane            | <200       |           | 200 | 60  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 06:29 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-1(0-5)-041315**

**Lab Sample ID: 500-94624-2**

Date Collected: 04/13/15 11:55

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 82.2

**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>270</b>       |                  | 39            | 10  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| Isophorone                    | <200             |                  | 200           | 44  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| <b>Naphthalene</b>            | <b>15</b>        | <b>J</b>         | 39            | 6.0 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| Nitrobenzene                  | <39              |                  | 39            | 9.8 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| N-Nitrosodi-n-propylamine     | <200             |                  | 200           | 48  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| N-Nitrosodiphenylamine        | <200             |                  | 200           | 46  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| Pentachlorophenol             | <790             |                  | 790           | 630 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| <b>Phenanthrene</b>           | <b>410</b>       |                  | 39            | 5.5 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| Phenol                        | <200             |                  | 200           | 87  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| <b>Pyrene</b>                 | <b>790</b>       |                  | 39            | 7.8 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 2,4,6-Tribromophenol          | 47               |                  | 35 - 137      |     |       |   | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| 2-Fluorobiphenyl              | 47               |                  | 25 - 119      |     |       |   | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| 2-Fluorophenol                | 44               |                  | 25 - 110      |     |       |   | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| Nitrobenzene-d5               | 44               |                  | 25 - 115      |     |       |   | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| Phenol-d5                     | 41               |                  | 31 - 110      |     |       |   | 04/16/15 07:38  | 04/21/15 06:29  | 1              |
| Terphenyl-d14                 | 63               |                  | 36 - 134      |     |       |   | 04/16/15 07:38  | 04/21/15 06:29  | 1              |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050        |           | 0.050  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Barium</b>    | <b>0.45</b>   | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| Beryllium        | <0.0040       |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Cadmium</b>   | <b>0.0026</b> | <b>J</b>  | 0.0050 | 0.0020 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| Chromium         | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Cobalt</b>    | <b>0.026</b>  |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Copper</b>    | <b>0.011</b>  | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Iron</b>      | <b>0.23</b>   |           | 0.20   | 0.20   | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Lead</b>      | <b>0.045</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Manganese</b> | <b>7.5</b>    |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Nickel</b>    | <b>0.019</b>  | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| Silver           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |
| <b>Zinc</b>      | <b>0.17</b>   |           | 0.10   | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:27 | 1       |

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

| Analyte          | Result       | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.025</b> | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Barium</b>    | <b>0.36</b>  | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Chromium</b>  | <b>0.087</b> |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Cobalt</b>    | <b>0.027</b> |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Copper</b>    | <b>0.081</b> |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Iron</b>      | <b>73</b>    |           | 0.20   | 0.20   | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Lead</b>      | <b>0.33</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Manganese</b> | <b>1.0</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Nickel</b>    | <b>0.070</b> |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-1(0-5)-041315**

**Lab Sample ID: 500-94624-2**

Date Collected: 04/13/15 11:55

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |
| <b>Zinc</b> | <b>0.35</b> |           | 0.10  | 0.020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:06 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.2         |           | 1.2  | 0.25  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Arsenic</b>   | <b>3.4</b>   |           | 0.59 | 0.27  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Barium</b>    | <b>37</b>    |           | 0.59 | 0.11  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Beryllium</b> | <b>0.38</b>  |           | 0.24 | 0.051 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Cadmium</b>   | <b>0.19</b>  |           | 0.12 | 0.034 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Calcium</b>   | <b>80000</b> | <b>B</b>  | 120  | 38    | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 23:51 | 10      |
| <b>Chromium</b>  | <b>9.4</b>   |           | 0.59 | 0.10  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Cobalt</b>    | <b>4.9</b>   |           | 0.30 | 0.067 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Copper</b>    | <b>10</b>    |           | 0.59 | 0.13  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Iron</b>      | <b>9200</b>  |           | 12   | 4.6   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Lead</b>      | <b>100</b>   |           | 0.30 | 0.15  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Magnesium</b> | <b>40000</b> | <b>B</b>  | 5.9  | 2.4   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Manganese</b> | <b>330</b>   |           | 0.59 | 0.12  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Nickel</b>    | <b>11</b>    |           | 0.59 | 0.16  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Potassium</b> | <b>1000</b>  |           | 30   | 4.8   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| Selenium         | <0.59        |           | 0.59 | 0.29  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| Silver           | <0.30        |           | 0.30 | 0.069 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Sodium</b>    | <b>790</b>   | <b>B</b>  | 59   | 7.8   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| Thallium         | <0.59        |           | 0.59 | 0.29  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Vanadium</b>  | <b>14</b>    |           | 0.30 | 0.087 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:28 | 1       |
| <b>Zinc</b>      | <b>45</b>    | <b>B</b>  | 1.2  | 0.38  | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 21:42 | 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 |   | 04/20/15 13:30 | 04/21/15 09:00 | 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 |   | 04/20/15 13:30 | 04/21/15 09:58 | 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>45</b> |           | 20 | 7.1 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 10:50 | 1       |

**General Chemistry**

| Analyte   | Result      | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| <b>pH</b> | <b>8.80</b> |           | 0.200 | 0.200 | SU   |   |          | 04/21/15 12:26 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-2(0-1)-041315**

**Lab Sample ID: 500-94624-3**

**Date Collected: 04/13/15 11:50**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 83.8**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <6.0   |           | 6.0 | 2.6  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Benzene                    | <6.0   |           | 6.0 | 0.82 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Bromodichloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Bromoform                  | <6.0   |           | 6.0 | 1.4  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Bromomethane               | <6.0   |           | 6.0 | 1.8  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Carbon disulfide           | <6.0   |           | 6.0 | 0.89 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Carbon tetrachloride       | <6.0   |           | 6.0 | 1.1  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Chlorobenzene              | <6.0   |           | 6.0 | 0.61 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Chloroethane               | <6.0   |           | 6.0 | 1.6  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Chloroform                 | <6.0   |           | 6.0 | 0.69 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Chloromethane              | <6.0   |           | 6.0 | 1.3  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| cis-1,2-Dichloroethene     | <6.0   |           | 6.0 | 0.84 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| cis-1,3-Dichloropropene    | <6.0   |           | 6.0 | 0.78 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Dibromochloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,1-Dichloroethane         | <6.0   |           | 6.0 | 0.94 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,2-Dichloroethane         | <6.0   |           | 6.0 | 0.88 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,1,1-Dichloroethene       | <6.0   |           | 6.0 | 0.96 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,2-Dichloropropane        | <6.0   |           | 6.0 | 0.91 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,3-Dichloropropene, Total | <6.0   |           | 6.0 | 0.78 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Ethylbenzene               | <6.0   |           | 6.0 | 1.2  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 2-Hexanone                 | <6.0   |           | 6.0 | 1.7  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Methylene Chloride         | <6.0   |           | 6.0 | 1.6  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Methyl Ethyl Ketone        | <6.0   |           | 6.0 | 2.2  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| methyl isobutyl ketone     | <6.0   |           | 6.0 | 1.6  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Methyl tert-butyl ether    | <6.0   |           | 6.0 | 0.99 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Styrene                    | <6.0   |           | 6.0 | 0.78 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,1,1,2-Tetrachloroethane  | <6.0   |           | 6.0 | 1.2  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Tetrachloroethene          | <6.0   |           | 6.0 | 0.91 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Toluene                    | <6.0   |           | 6.0 | 0.84 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| trans-1,2-Dichloroethene   | <6.0   |           | 6.0 | 0.82 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| trans-1,3-Dichloropropene  | <6.0   |           | 6.0 | 1.1  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,1,1-Trichloroethane      | <6.0   |           | 6.0 | 0.89 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| 1,1,2-Trichloroethane      | <6.0   |           | 6.0 | 0.81 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Trichloroethene            | <6.0   |           | 6.0 | 0.98 | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Vinyl chloride             | <6.0   |           | 6.0 | 1.3  | ug/Kg | * |          | 04/17/15 12:42 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.54 | ug/Kg | * |          | 04/17/15 12:42 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 12:42 | 1       |
| Dibromofluoromethane         | 100       |           | 75 - 120 |          | 04/17/15 12:42 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 70 - 134 |          | 04/17/15 12:42 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 75 - 122 |          | 04/17/15 12:42 | 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 | 41  | ug/Kg | * | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 46  | ug/Kg | * | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 43  | ug/Kg | * | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 49  | ug/Kg | * | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 45  | ug/Kg | * | 04/16/15 07:38 | 04/22/15 14:15 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-2(0-1)-041315**

**Lab Sample ID: 500-94624-3**

**Date Collected: 04/13/15 11:50**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 83.8**

**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 | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2,4,6-Trichlorophenol              | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2,4-Dichlorophenol                 | <380        |           | 380 | 91  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2,4-Dimethylphenol                 | <380        |           | 380 | 150 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2,4-Dinitrophenol                  | <780        |           | 780 | 680 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2,4-Dinitrotoluene                 | <190        |           | 190 | 61  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2,6-Dinitrotoluene                 | <190        |           | 190 | 76  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Chloronaphthalene                | <190        |           | 190 | 42  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Chlorophenol                     | <190        |           | 190 | 66  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Methylnaphthalene                | <38         |           | 38  | 7.1 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Methylphenol                     | <190        |           | 190 | 62  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Nitroaniline                     | <190        |           | 190 | 52  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Nitrophenol                      | <380        |           | 380 | 91  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 3 & 4 Methylphenol                 | <190        |           | 190 | 64  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 3,3'-Dichlorobenzidine             | <190        |           | 190 | 54  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 3-Nitroaniline                     | <380        |           | 380 | 120 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 4,6-Dinitro-2-methylphenol         | <380        |           | 380 | 310 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 4-Bromophenyl phenyl ether         | <190        |           | 190 | 51  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 4-Chloro-3-methylphenol            | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 4-Chloroaniline                    | <780        |           | 780 | 180 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 4-Chlorophenyl phenyl ether        | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 4-Nitroaniline                     | <380        |           | 380 | 160 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 4-Nitrophenol                      | <780        |           | 780 | 370 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Acenaphthene</b>                | <b>18 J</b> |           | 38  | 6.9 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Acenaphthylene                     | <38         |           | 38  | 5.1 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Anthracene</b>                  | <b>75</b>   |           | 38  | 6.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Benzo[a]anthracene</b>          | <b>320</b>  |           | 38  | 5.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Benzo[a]pyrene</b>              | <b>270</b>  |           | 38  | 7.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Benzo[b]fluoranthene</b>        | <b>430</b>  |           | 38  | 8.3 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Benzo[g,h,i]perylene</b>        | <b>300</b>  |           | 38  | 12  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Benzo[k]fluoranthene</b>        | <b>190</b>  |           | 38  | 11  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Bis(2-chloroethoxy)methane         | <190        |           | 190 | 39  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Bis(2-chloroethyl)ether            | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Bis(2-ethylhexyl) phthalate</b> | <b>71 J</b> |           | 190 | 70  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Butyl benzyl phthalate             | <190        |           | 190 | 73  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Carbazole                          | <190        |           | 190 | 99  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Chrysene</b>                    | <b>350</b>  |           | 38  | 10  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Dibenz(a,h)anthracene              | <38         |           | 38  | 7.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Dibenzofuran                       | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Diethyl phthalate                  | <190        |           | 190 | 65  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Dimethyl phthalate                 | <190        |           | 190 | 50  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Di-n-butyl phthalate               | <190        |           | 190 | 59  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Di-n-octyl phthalate               | <190        |           | 190 | 63  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Fluoranthene</b>                | <b>490</b>  |           | 38  | 7.1 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Fluorene</b>                    | <b>23 J</b> |           | 38  | 5.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Hexachlorobenzene                  | <78         |           | 78  | 8.9 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Hexachlorobutadiene                | <190        |           | 190 | 60  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Hexachlorocyclopentadiene          | <780        |           | 780 | 220 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Hexachloroethane                   | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-2(0-1)-041315**

**Lab Sample ID: 500-94624-3**

Date Collected: 04/13/15 11:50

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 83.8

**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>230</b>  |           | 38       | 10  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Isophorone                    | <190        |           | 190      | 43  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Naphthalene                   | <38         |           | 38       | 5.9 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Nitrobenzene                  | <38         |           | 38       | 9.6 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| N-Nitrosodi-n-propylamine     | <190        |           | 190      | 47  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| N-Nitrosodiphenylamine        | <190        |           | 190      | 45  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Pentachlorophenol             | <780        |           | 780      | 620 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Phenanthrene</b>           | <b>300</b>  |           | 38       | 5.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Phenol                        | <190        |           | 190      | 85  | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| <b>Pyrene</b>                 | <b>1700</b> |           | 38       | 7.6 | ug/Kg | ☼ | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Surrogate                     | %Recovery   | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol          | 57          |           | 35 - 137 |     |       |   | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Fluorobiphenyl              | 52          |           | 25 - 119 |     |       |   | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| 2-Fluorophenol                | 51          |           | 25 - 110 |     |       |   | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Nitrobenzene-d5               | 33          |           | 25 - 115 |     |       |   | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Phenol-d5                     | 38          |           | 31 - 110 |     |       |   | 04/16/15 07:38 | 04/22/15 14:15 | 1       |
| Terphenyl-d14                 | 286         | X         | 36 - 134 |     |       |   | 04/16/15 07:38 | 04/22/15 14:15 | 1       |

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

| Analyte          | Result       | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.011</b> | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| <b>Barium</b>    | <b>0.37</b>  | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Chromium         | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Cobalt           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| <b>Copper</b>    | <b>0.016</b> | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Iron             | <0.20        |           | 0.20   | 0.20   | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Lead             | <0.0075      |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| <b>Manganese</b> | <b>0.66</b>  |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Nickel           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| Silver           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |
| <b>Zinc</b>      | <b>0.090</b> | <b>J</b>  | 0.10   | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:32 | 1       |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.057</b>  |           | 0.050  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Barium</b>    | <b>0.58</b>   |           | 0.50   | 0.050  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Beryllium</b> | <b>0.0056</b> |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| Cadmium          | <0.0050       |           | 0.0050 | 0.0020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Chromium</b>  | <b>0.15</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Cobalt</b>    | <b>0.036</b>  |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Copper</b>    | <b>0.21</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Iron</b>      | <b>140</b>    |           | 0.20   | 0.20   | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Lead</b>      | <b>0.18</b>   |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Manganese</b> | <b>1.0</b>    |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Nickel</b>    | <b>0.12</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-2(0-1)-041315**

**Lab Sample ID: 500-94624-3**

Date Collected: 04/13/15 11:50

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |
| <b>Zinc</b> | <b>0.61</b> |           | 0.10  | 0.020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:13 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.1         |           | 1.1  | 0.23  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Arsenic</b>   | <b>9.0</b>   |           | 0.55 | 0.25  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Barium</b>    | <b>65</b>    |           | 0.55 | 0.10  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Beryllium</b> | <b>0.60</b>  |           | 0.22 | 0.048 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Cadmium</b>   | <b>0.67</b>  |           | 0.11 | 0.032 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Calcium</b>   | <b>27000</b> | <b>B</b>  | 11   | 3.5   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Chromium</b>  | <b>17</b>    |           | 0.55 | 0.095 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Cobalt</b>    | <b>9.8</b>   |           | 0.28 | 0.062 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Copper</b>    | <b>62</b>    |           | 0.55 | 0.12  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Iron</b>      | <b>18000</b> |           | 11   | 4.2   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Lead</b>      | <b>80</b>    |           | 0.28 | 0.14  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Magnesium</b> | <b>16000</b> | <b>B</b>  | 5.5  | 2.2   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Manganese</b> | <b>450</b>   |           | 0.55 | 0.11  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Nickel</b>    | <b>23</b>    |           | 0.55 | 0.15  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Potassium</b> | <b>1600</b>  |           | 28   | 4.5   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Selenium</b>  | <b>0.42</b>  | <b>J</b>  | 0.55 | 0.27  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| Silver           | <0.28        |           | 0.28 | 0.064 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Sodium</b>    | <b>1200</b>  | <b>B</b>  | 55   | 7.3   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| Thallium         | <0.55        |           | 0.55 | 0.27  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Vanadium</b>  | <b>24</b>    |           | 0.28 | 0.080 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:33 | 1       |
| <b>Zinc</b>      | <b>110</b>   | <b>B</b>  | 1.1  | 0.35  | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 21:47 | 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 |   | 04/20/15 13:30 | 04/21/15 09:02 | 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 |   | 04/20/15 13:30 | 04/21/15 10:00 | 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>38</b> |           | 17 | 6.0 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 10:52 | 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   |   |          | 04/21/15 12:31 | 1       |



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-3(0-5)-041315**

**Lab Sample ID: 500-94624-6**

**Date Collected: 04/13/15 11:40**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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 | ☼ |          | 04/17/15 14:31 | 1       |
| Benzene                    | <6.1   |           | 6.1 | 0.84 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Bromodichloromethane       | <6.1   |           | 6.1 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Bromoform                  | <6.1   |           | 6.1 | 1.4  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Bromomethane               | <6.1   |           | 6.1 | 1.9  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Carbon disulfide           | <6.1   |           | 6.1 | 0.92 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Carbon tetrachloride       | <6.1   |           | 6.1 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Chlorobenzene              | <6.1   |           | 6.1 | 0.62 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Chloroethane               | <6.1   |           | 6.1 | 1.7  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Chloroform                 | <6.1   |           | 6.1 | 0.71 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Chloromethane              | <6.1   |           | 6.1 | 1.3  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| cis-1,2-Dichloroethene     | <6.1   |           | 6.1 | 0.87 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| cis-1,3-Dichloropropene    | <6.1   |           | 6.1 | 0.80 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Dibromochloromethane       | <6.1   |           | 6.1 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,1-Dichloroethane         | <6.1   |           | 6.1 | 0.97 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,2-Dichloroethane         | <6.1   |           | 6.1 | 0.91 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,1,1-Dichloroethane       | <6.1   |           | 6.1 | 0.99 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,2-Dichloropropane        | <6.1   |           | 6.1 | 0.93 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,3-Dichloropropene, Total | <6.1   |           | 6.1 | 0.80 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Ethylbenzene               | <6.1   |           | 6.1 | 1.2  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 2-Hexanone                 | <6.1   |           | 6.1 | 1.8  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Methylene Chloride         | <6.1   |           | 6.1 | 1.7  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Methyl Ethyl Ketone        | <6.1   |           | 6.1 | 2.2  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| methyl isobutyl ketone     | <6.1   |           | 6.1 | 1.6  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Methyl tert-butyl ether    | <6.1   |           | 6.1 | 1.0  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Styrene                    | <6.1   |           | 6.1 | 0.80 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,1,1,2-Tetrachloroethane  | <6.1   |           | 6.1 | 1.2  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Tetrachloroethene          | <6.1   |           | 6.1 | 0.94 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Toluene                    | <6.1   |           | 6.1 | 0.86 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| trans-1,2-Dichloroethene   | <6.1   |           | 6.1 | 0.84 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| trans-1,3-Dichloropropene  | <6.1   |           | 6.1 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,1,1-Trichloroethane      | <6.1   |           | 6.1 | 0.92 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| 1,1,2-Trichloroethane      | <6.1   |           | 6.1 | 0.84 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Trichloroethene            | <6.1   |           | 6.1 | 1.0  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Vinyl chloride             | <6.1   |           | 6.1 | 1.3  | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.56 | ug/Kg | ☼ |          | 04/17/15 14:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 14:31 | 1       |
| Dibromofluoromethane         | 101       |           | 75 - 120 |          | 04/17/15 14:31 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 70 - 134 |          | 04/17/15 14:31 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 75 - 122 |          | 04/17/15 14:31 | 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 | 42  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 46  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 43  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 49  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 45  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-3(0-5)-041315**

**Lab Sample ID: 500-94624-6**

**Date Collected: 04/13/15 11:40**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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       | <380       |           | 380 | 88  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2,4,6-Trichlorophenol       | <380       |           | 380 | 130 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2,4-Dichlorophenol          | <380       |           | 380 | 92  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2,4-Dimethylphenol          | <380       |           | 380 | 150 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2,4-Dinitrophenol           | <780       |           | 780 | 680 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2,4-Dinitrotoluene          | <190       |           | 190 | 61  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2,6-Dinitrotoluene          | <190       |           | 190 | 76  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2-Chloronaphthalene         | <190       |           | 190 | 43  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2-Chlorophenol              | <190       |           | 190 | 66  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2-Methylnaphthalene         | <38        |           | 38  | 7.1 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2-Methylphenol              | <190       |           | 190 | 62  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2-Nitroaniline              | <190       |           | 190 | 52  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 2-Nitrophenol               | <380       |           | 380 | 91  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 3 & 4 Methylphenol          | <190       |           | 190 | 64  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 3,3'-Dichlorobenzidine      | <190       |           | 190 | 54  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 3-Nitroaniline              | <380       |           | 380 | 120 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 4,6-Dinitro-2-methylphenol  | <380       |           | 380 | 310 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 4-Bromophenyl phenyl ether  | <190       |           | 190 | 51  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 4-Chloro-3-methylphenol     | <380       |           | 380 | 130 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 4-Chloroaniline             | <780       |           | 780 | 180 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 4-Chlorophenyl phenyl ether | <190       |           | 190 | 45  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 4-Nitroaniline              | <380       |           | 380 | 160 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| 4-Nitrophenol               | <780       |           | 780 | 370 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Acenaphthene                | <38        |           | 38  | 6.9 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Acenaphthylene              | <38        |           | 38  | 5.1 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Anthracene</b>           | <b>26</b>  | <b>J</b>  | 38  | 6.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>210</b> |           | 38  | 5.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>230</b> |           | 38  | 7.5 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>320</b> |           | 38  | 8.3 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>190</b> |           | 38  | 12  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>130</b> |           | 38  | 11  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Bis(2-chloroethoxy)methane  | <190       |           | 190 | 39  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Bis(2-chloroethyl)ether     | <190       |           | 190 | 58  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Bis(2-ethylhexyl) phthalate | <190       |           | 190 | 71  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Butyl benzyl phthalate      | <190       |           | 190 | 73  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Carbazole                   | <190       |           | 190 | 100 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Chrysene</b>             | <b>230</b> |           | 38  | 11  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Dibenz(a,h)anthracene       | <38        |           | 38  | 7.5 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Dibenzofuran                | <190       |           | 190 | 45  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Diethyl phthalate           | <190       |           | 190 | 65  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Dimethyl phthalate          | <190       |           | 190 | 50  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Di-n-butyl phthalate        | <190       |           | 190 | 59  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Di-n-octyl phthalate        | <190       |           | 190 | 63  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| <b>Fluoranthene</b>         | <b>450</b> |           | 38  | 7.2 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Fluorene                    | <38        |           | 38  | 5.4 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Hexachlorobenzene           | <78        |           | 78  | 8.9 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Hexachlorobutadiene         | <190       |           | 190 | 61  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Hexachlorocyclopentadiene   | <780       |           | 780 | 220 | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |
| Hexachloroethane            | <190       |           | 190 | 59  | ug/Kg | ☼ | 04/16/15 07:38 | 04/21/15 07:51 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-3(0-5)-041315**

**Lab Sample ID: 500-94624-6**

Date Collected: 04/13/15 11:40

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 81.5

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

| Analyte                       | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| <b>Indeno[1,2,3-cd]pyrene</b> | <b>170</b>       |                  | 38            | 10  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Isophorone                    | <190             |                  | 190           | 43  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Naphthalene                   | <38              |                  | 38            | 5.9 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Nitrobenzene                  | <38              |                  | 38            | 9.6 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| N-Nitrosodi-n-propylamine     | <190             |                  | 190           | 47  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| N-Nitrosodiphenylamine        | <190             |                  | 190           | 46  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Pentachlorophenol             | <780             |                  | 780           | 620 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| <b>Phenanthrene</b>           | <b>140</b>       |                  | 38            | 5.4 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Phenol                        | <190             |                  | 190           | 86  | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| <b>Pyrene</b>                 | <b>370</b>       |                  | 38            | 7.7 | ug/Kg | ☼ | 04/16/15 07:38  | 04/21/15 07:51  | 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          | 61               |                  | 35 - 137      |     |       |   | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| 2-Fluorobiphenyl              | 47               |                  | 25 - 119      |     |       |   | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| 2-Fluorophenol                | 44               |                  | 25 - 110      |     |       |   | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Nitrobenzene-d5               | 45               |                  | 25 - 115      |     |       |   | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Phenol-d5                     | 41               |                  | 31 - 110      |     |       |   | 04/16/15 07:38  | 04/21/15 07:51  | 1              |
| Terphenyl-d14                 | 65               |                  | 36 - 134      |     |       |   | 04/16/15 07:38  | 04/21/15 07:51  | 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 |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| <b>Barium</b>    | <b>0.34</b>   | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Beryllium        | <0.0040       |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Cadmium          | <0.0050       |           | 0.0050 | 0.0020 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Chromium         | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Cobalt           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| <b>Copper</b>    | <b>0.011</b>  | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Iron             | <0.20         |           | 0.20   | 0.20   | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| <b>Lead</b>      | <b>0.0092</b> |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| <b>Manganese</b> | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Nickel           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| Silver           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |
| <b>Zinc</b>      | <b>0.090</b>  | <b>J</b>  | 0.10   | 0.020  | mg/L |   | 04/19/15 15:00 | 04/20/15 17:47 | 1       |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.042</b>  | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Barium</b>    | <b>0.49</b>   | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Beryllium</b> | <b>0.0048</b> |           | 0.0040 | 0.0040 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| Cadmium          | <0.0050       |           | 0.0050 | 0.0020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Chromium</b>  | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Cobalt</b>    | <b>0.034</b>  |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Copper</b>    | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Iron</b>      | <b>120</b>    |           | 0.20   | 0.20   | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Lead</b>      | <b>0.47</b>   |           | 0.0075 | 0.0075 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Manganese</b> | <b>0.89</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Nickel</b>    | <b>0.11</b>   |           | 0.025  | 0.010  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

**Client Sample ID: MB-3(0-5)-041315**

**Lab Sample ID: 500-94624-6**

Date Collected: 04/13/15 11:40

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |
| <b>Zinc</b> | <b>0.60</b> |           | 0.10  | 0.020 | mg/L |   | 04/19/15 14:30 | 04/20/15 15:38 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.2         |           | 1.2  | 0.25  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Arsenic</b>   | <b>10</b>    |           | 0.61 | 0.28  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Barium</b>    | <b>64</b>    |           | 0.61 | 0.11  | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 22:08 | 1       |
| <b>Beryllium</b> | <b>0.64</b>  |           | 0.24 | 0.053 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Cadmium</b>   | <b>0.33</b>  |           | 0.12 | 0.035 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Calcium</b>   | <b>35000</b> | <b>B</b>  | 12   | 3.9   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Chromium</b>  | <b>17</b>    |           | 0.61 | 0.10  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Cobalt</b>    | <b>13</b>    |           | 0.30 | 0.069 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Copper</b>    | <b>26</b>    |           | 0.61 | 0.13  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Iron</b>      | <b>20000</b> |           | 12   | 4.7   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Lead</b>      | <b>70</b>    |           | 0.30 | 0.15  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Magnesium</b> | <b>20000</b> | <b>B</b>  | 6.1  | 2.5   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Manganese</b> | <b>650</b>   |           | 0.61 | 0.12  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Nickel</b>    | <b>27</b>    |           | 0.61 | 0.16  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Potassium</b> | <b>1600</b>  |           | 30   | 5.0   | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 22:08 | 1       |
| <b>Selenium</b>  | <b>0.37</b>  | <b>J</b>  | 0.61 | 0.30  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| Silver           | <0.30        |           | 0.30 | 0.071 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Sodium</b>    | <b>1600</b>  | <b>B</b>  | 61   | 8.0   | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| Thallium         | <0.61        |           | 0.61 | 0.30  | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Vanadium</b>  | <b>25</b>    |           | 0.30 | 0.089 | mg/Kg | ☼ | 04/16/15 17:55 | 04/17/15 21:55 | 1       |
| <b>Zinc</b>      | <b>85</b>    | <b>B</b>  | 1.2  | 0.38  | mg/Kg | ☼ | 04/16/15 17:55 | 04/18/15 22:08 | 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 |   | 04/20/15 13:30 | 04/21/15 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 |   | 04/20/15 13:30 | 04/21/15 10:06 | 1       |

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

| Analyte        | Result    | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| <b>Mercury</b> | <b>16</b> | <b>J</b>  | 20 | 7.1 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 10:58 | 1       |

**General Chemistry**

| Analyte   | Result      | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| <b>pH</b> | <b>8.82</b> |           | 0.200 | 0.200 | SU   |   |          | 04/21/15 12:44 | 1       |

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |
| F2        | MS/MSD RPD exceeds control limits                    |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                              |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E         | Result exceeded calibration range.                                                                             |
| X         | Surrogate is outside control limits                                                                            |

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| F2        | MS/MSD RPD exceeds control limits                                                                                                                         |
| B         | Compound was found in the blank and sample.                                                                                                               |
| F3        | Duplicate RPD exceeds the control limit                                                                                                                   |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94624-1

## 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           | 04-30-16        |

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             |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60  
Phone: 708.534.5200 Fax: 708.534



500-94624 COC

Report To (optional)  
Contact: S. Babuskumar  
Company: Weston Solutions  
Address: 300 Plaza Club  
Address: Mundelein IL  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-94624

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

Page 3 of \_\_\_\_\_

Temperature °C of Cooler: 33, 35, 29, 3, 0

| Client                          |        | Client Project #            |                 | Preservative    |                 | VOCs   | SVOCs | Metals | Temp/Sp/PH | pH | Comments                                                                                                                                                                                    |
|---------------------------------|--------|-----------------------------|-----------------|-----------------|-----------------|--------|-------|--------|------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name                    |        | Lab Project #               |                 | Parameter       |                 |        |       |        |            |    |                                                                                                                                                                                             |
| Project Location/State          |        | Lab PM                      |                 |                 |                 |        |       |        |            |    |                                                                                                                                                                                             |
| <del>Weston</del> <u>Weston</u> |        | <u>1DOT 014</u>             |                 |                 |                 |        |       |        |            |    | Preservative Key<br>1. HCL, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |
| <u>Wheating</u>                 |        | <u>Wheating, IL</u>         |                 |                 |                 |        |       |        |            |    |                                                                                                                                                                                             |
| Sampler <u>Colomb</u>           |        | Lab PM <u>Wright</u>        |                 |                 |                 |        |       |        |            |    |                                                                                                                                                                                             |
| Lab ID                          | MS/MSD | Sample ID                   | Date            | Time            | # of Containers | Matrix |       |        |            |    |                                                                                                                                                                                             |
|                                 |        | <del>AA-1(0-5)-041315</del> | <del>4/13</del> | <del>0845</del> |                 |        |       |        |            |    |                                                                                                                                                                                             |
|                                 |        | <del>AB-1(0-1)-041315</del> | <del>4/13</del> | <del>0855</del> |                 |        |       |        |            |    |                                                                                                                                                                                             |
| 1                               |        | LP-3(0-5)-041315            | 4/13            | 1200            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 2                               |        | MB-1(0-5)-041315            | 4/13            | 1155            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 3                               |        | MB-2(0-1)-041315            | 4/13            | 1150            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 4                               |        | MB-4(0-1)-041315            | 4/13            | 1135            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 5                               |        | MB-5(0-1)-041315            | 4/13            | 1130            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 6                               |        | MB-3(0-5)-041315            | 4/13            | 1140            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 7                               |        | WC-2(0-1)-041315            | 4/13            | 1230            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |
| 8                               |        | WC-1(0-5)-041315            | 4/13            | 1235            | 2               | S      | ↓     | ↓      | ↓          | ↓  |                                                                                                                                                                                             |

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

|                                                                                                   |                                                                                           |                        |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>4/13/15</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/13/15</u> Time: <u>1500</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/14/15</u> Time: <u>1300</u>     | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/14/15</u> Time: <u>1300</u> | Shipped: _____         |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____                                     | Received By: _____ Company: _____ Date: _____ Time: _____                                 | 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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
520-550 Dundee Road (ISGS Site No. 2646-25)

City: Wheeling 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: 42.139402380 Longitude: -87.930089746  
(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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd

Latitude: 42.139402380 Longitude: -87.930089746

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 LP-1 AND LP-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2646-25. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL 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 REPORT - JOB ID: 500-94625-1.  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

25 June 2015

Date:



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

**Summary Table of ISGS Site No. 2646-25**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

| Field Sample ID             | LP-1(0-5)-041315 | LP-2(0-5)-041315 | Soil Reference Concentrations <sup>A</sup> |
|-----------------------------|------------------|------------------|--------------------------------------------|
| Sample Date                 | 4/13/2015        | 4/13/2015        |                                            |
| Location ID                 | LP-1             | LP-2             |                                            |
| Depth                       | 0 - 5            | 0 - 5            |                                            |
| ISGS Site No.               | 2646-25          | 2646-25          |                                            |
| <b>Parameter</b>            |                  |                  |                                            |
| Laboratory pH (s.u.)        | 8.65             | 8.14             | <6.25,>9.0                                 |
| <b>VOCs (ug/kg)</b>         | None Detected    |                  |                                            |
| <b>SVOCs (ug/kg)</b>        |                  |                  |                                            |
| Benzo(a)pyrene              | 430              | 660              | 90 / 1300 / 2100                           |
| Benzo(b)fluoranthene        | 580              | 1000             | 900 / 1500 / 2100                          |
| <b>Total Metals (mg/kg)</b> |                  |                  |                                            |
| Antimony, Total             | ND               | ND               | 5                                          |
| Arsenic, Total              | 5 J              | 4.7 J            | 11.3 / 13                                  |
| Barium, Total               | 41               | 52               | 1500                                       |
| Beryllium, Total            | 0.46             | 0.51             | 22                                         |
| Cadmium, Total              | 0.21             | 0.35             | 5.2                                        |
| Calcium, Total              | 52000 J          | 11000 J          | ---                                        |
| Chromium, Total             | 13               | 17               | 21                                         |
| Cobalt, Total               | 6.6              | 7.5              | 20                                         |
| Copper, Total               | 19               | 25               | 2900                                       |
| Iron, Total                 | 16000 J          | 18000 J          | 15000 / 15900                              |
| Lead, Total                 | 48 J+            | 130 J+           | 107                                        |
| Magnesium, Total            | 26000 J          | 23000 J          | 325000                                     |
| Manganese, Total            | 410 J-           | 390 J-           | 630 / 636                                  |
| Mercury, Total              | 0.033 J+         | 0.038 J+         | 0.89                                       |
| Nickel, Total               | 19 J             | 18 J             | 100                                        |
| Potassium, Total            | 1100 J+          | 1100 J+          | ---                                        |
| Selenium, Total             | ND               | ND               | 1.3                                        |
| Silver, Total               | ND               | ND               | 4.4                                        |
| Sodium, Total               | 710 B            | 520 B            |                                            |
| Thallium, Total             | ND               | ND               | 2.6                                        |
| Vanadium, Total             | 18               | 18               | 550                                        |
| Zinc, Total                 | 73 J+            | 110 J+           | 5100                                       |
| <b>TCLP Metals (mg/l)</b>   |                  |                  |                                            |
| Arsenic, TCLP               | ND               | ND               | 0.05                                       |
| Barium, TCLP                | 0.44 J           | 0.25 J           | 2                                          |
| Cadmium, TCLP               | ND               | 0.0035 J         | 0.005                                      |
| Cobalt, TCLP                | ND               | ND               | 1                                          |
| Copper, TCLP                | ND               | ND               | 0.65                                       |
| Iron, TCLP                  | ND               | ND               | 5                                          |
| Manganese, TCLP             | 1.1              | 0.42             | 0.15                                       |
| Nickel, TCLP                | ND               | ND               | 0.1                                        |
| Zinc, TCLP                  | ND               | ND               | 5                                          |
| <b>SPLP Metals (mg/l)</b>   |                  |                  |                                            |
| Arsenic, SPLP               | 0.041 J          | 0.011 J          | 0.05                                       |
| Barium, SPLP                | 0.5              | 0.19 J           | 2                                          |
| Beryllium, SPLP             | 0.0045           | ND               | 0.004                                      |
| Cadmium, SPLP               | ND               | ND               | 0.005                                      |
| Chromium, SPLP              | 0.13             | 0.061            | 0.1                                        |
| Cobalt, SPLP                | 0.031            | 0.011 J          | 1                                          |
| Copper, SPLP                | 0.13             | 0.073            | 0.65                                       |
| Iron, SPLP                  | 130              | 46               | 5                                          |
| Lead, SPLP                  | 0.19             | 0.11             | 0.0075                                     |
| Lead, TCLP                  | ND               | ND               | 0.0075                                     |
| Manganese, SPLP             | 0.95             | 0.47             | 0.15                                       |
| Mercury, SPLP               | ND               | ND               | 0.002                                      |
| Nickel, SPLP                | 0.091            | 0.034            | 0.1                                        |
| Zinc, SPLP                  | 0.6              | 0.27             | 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 low.

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: 500-94625-1  
Client Project/Site: IDOT - Wheeling - WO 014

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
4/23/2015 10:11:06 AM

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 - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-2(0-5)-041315**

**Lab Sample ID: 500-94625-14**

**Date Collected: 04/13/15 15:35**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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 | ☼ |          | 04/17/15 15:22 | 1       |
| Benzene                    | <6.0   |           | 6.0 | 0.83 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Bromodichloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Bromoform                  | <6.0   |           | 6.0 | 1.4  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Bromomethane               | <6.0   |           | 6.0 | 1.8  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Carbon disulfide           | <6.0   |           | 6.0 | 0.90 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Carbon tetrachloride       | <6.0   |           | 6.0 | 1.1  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Chlorobenzene              | <6.0   |           | 6.0 | 0.61 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Chloroethane               | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Chloroform                 | <6.0   |           | 6.0 | 0.69 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Chloromethane              | <6.0   |           | 6.0 | 1.3  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| cis-1,2-Dichloroethene     | <6.0   |           | 6.0 | 0.85 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| cis-1,3-Dichloropropene    | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Dibromochloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,1-Dichloroethane         | <6.0   |           | 6.0 | 0.95 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,2-Dichloroethane         | <6.0   |           | 6.0 | 0.89 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,1-Dichloroethene         | <6.0   |           | 6.0 | 0.97 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,2-Dichloropropane        | <6.0   |           | 6.0 | 0.92 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,3-Dichloropropene, Total | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Ethylbenzene               | <6.0   |           | 6.0 | 1.2  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 2-Hexanone                 | <6.0   |           | 6.0 | 1.7  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Methylene Chloride         | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Methyl Ethyl Ketone        | <6.0   |           | 6.0 | 2.2  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| methyl isobutyl ketone     | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Methyl tert-butyl ether    | <6.0   |           | 6.0 | 1.0  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Styrene                    | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,1,1,2-Tetrachloroethane  | <6.0   |           | 6.0 | 1.2  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Tetrachloroethene          | <6.0   |           | 6.0 | 0.92 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Toluene                    | <6.0   |           | 6.0 | 0.84 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| trans-1,2-Dichloroethene   | <6.0   |           | 6.0 | 0.83 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| trans-1,3-Dichloropropene  | <6.0   |           | 6.0 | 1.1  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,1,1-Trichloroethane      | <6.0   |           | 6.0 | 0.90 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| 1,1,2-Trichloroethane      | <6.0   |           | 6.0 | 0.82 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Trichloroethene            | <6.0   |           | 6.0 | 0.99 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Vinyl chloride             | <6.0   |           | 6.0 | 1.3  | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.55 | ug/Kg | ☼ |          | 04/17/15 15:22 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 100       |           | 70 - 122 |          | 04/17/15 15:22 | 1       |
| Dibromofluoromethane         | 111       |           | 75 - 120 |          | 04/17/15 15:22 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 70 - 134 |          | 04/17/15 15:22 | 1       |
| Toluene-d8 (Surr)            | 110       |           | 75 - 122 |          | 04/17/15 15:22 | 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 | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-2(0-5)-041315**

**Lab Sample ID: 500-94625-14**

**Date Collected: 04/13/15 15:35**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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       | <380        |           | 380 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2,4,6-Trichlorophenol       | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2,4-Dichlorophenol          | <380        |           | 380 | 92  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2,4-Dimethylphenol          | <380        |           | 380 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2,4-Dinitrophenol           | <780        | *         | 780 | 680 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2,4-Dinitrotoluene          | <190        |           | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2,6-Dinitrotoluene          | <190        |           | 190 | 76  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Chloronaphthalene         | <190        |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Chlorophenol              | <190        |           | 190 | 66  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Methylnaphthalene         | <38         |           | 38  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Methylphenol              | <190        |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Nitroaniline              | <190        |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Nitrophenol               | <380        |           | 380 | 91  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 3 & 4 Methylphenol          | <190        |           | 190 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 3,3'-Dichlorobenzidine      | <190        |           | 190 | 54  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 3-Nitroaniline              | <380        |           | 380 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 4,6-Dinitro-2-methylphenol  | <380        |           | 380 | 310 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 4-Bromophenyl phenyl ether  | <190        |           | 190 | 51  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 4-Chloro-3-methylphenol     | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 4-Chloroaniline             | <780        |           | 780 | 180 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 4-Chlorophenyl phenyl ether | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 4-Nitroaniline              | <380        |           | 380 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 4-Nitrophenol               | <780        |           | 780 | 370 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Acenaphthene</b>         | <b>30</b>   | <b>J</b>  | 38  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Acenaphthylene              | <38         |           | 38  | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Anthracene</b>           | <b>71</b>   |           | 38  | 6.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>650</b>  |           | 38  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>660</b>  |           | 38  | 7.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>1000</b> |           | 38  | 8.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>310</b>  |           | 38  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>350</b>  |           | 38  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Bis(2-chloroethoxy)methane  | <190        |           | 190 | 39  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Bis(2-chloroethyl)ether     | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Bis(2-ethylhexyl) phthalate | <190        |           | 190 | 71  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Butyl benzyl phthalate      | <190        |           | 190 | 74  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Carbazole                   | <190        |           | 190 | 100 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Chrysene</b>             | <b>820</b>  |           | 38  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Dibenz(a,h)anthracene       | <38         |           | 38  | 7.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Dibenzofuran                | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Diethyl phthalate           | <190        |           | 190 | 66  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Dimethyl phthalate          | <190        |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Di-n-butyl phthalate        | <190        |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Di-n-octyl phthalate        | <190        |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Fluoranthene</b>         | <b>1700</b> |           | 38  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Fluorene</b>             | <b>23</b>   | <b>J</b>  | 38  | 5.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Hexachlorobenzene           | <78         |           | 78  | 9.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Hexachlorobutadiene         | <190        |           | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Hexachlorocyclopentadiene   | <780        |           | 780 | 220 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Hexachloroethane            | <190        |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-2(0-5)-041315**

**Lab Sample ID: 500-94625-14**

Date Collected: 04/13/15 15:35

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 82.9

**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>420</b>  |           | 38       | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Isophorone                    | <190        |           | 190      | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Naphthalene                   | <38         |           | 38       | 5.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Nitrobenzene                  | <38         |           | 38       | 9.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| N-Nitrosodi-n-propylamine     | <190        |           | 190      | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| N-Nitrosodiphenylamine        | <190        |           | 190      | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Pentachlorophenol             | <780        |           | 780      | 620 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Phenanthrene</b>           | <b>600</b>  |           | 38       | 5.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Phenol                        | <190        |           | 190      | 86  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| <b>Pyrene</b>                 | <b>2000</b> |           | 38       | 7.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Surrogate                     | %Recovery   | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol          | 63          |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Fluorobiphenyl              | 49          |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| 2-Fluorophenol                | 55          |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Nitrobenzene-d5               | 49          |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Phenol-d5                     | 45          |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 07:31 | 1       |
| Terphenyl-d14                 | 88          |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 07:31 | 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 |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| <b>Barium</b>    | <b>0.25</b>   | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Beryllium        | <0.0040       |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| <b>Cadmium</b>   | <b>0.0035</b> | <b>J</b>   | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Chromium         | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Cobalt           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| <b>Copper</b>    | <b>0.014</b>  | <b>J B</b> | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Iron             | <0.20         |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Lead             | <0.0075       |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| <b>Manganese</b> | <b>0.42</b>   |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Nickel           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Selenium         | <0.050        |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| Silver           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |
| <b>Zinc</b>      | <b>0.068</b>  | <b>J B</b> | 0.10   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:43 | 1       |

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

| Analyte          | Result       | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.011</b> | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| <b>Barium</b>    | <b>0.19</b>  | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 22:03 | 1       |
| <b>Chromium</b>  | <b>0.061</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| <b>Cobalt</b>    | <b>0.011</b> | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| <b>Copper</b>    | <b>0.073</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| <b>Iron</b>      | <b>46</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| <b>Lead</b>      | <b>0.11</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 22:03 | 1       |
| <b>Manganese</b> | <b>0.47</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| <b>Nickel</b>    | <b>0.034</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-2(0-5)-041315**

**Lab Sample ID: 500-94625-14**

Date Collected: 04/13/15 15:35

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 05:18 | 1       |
| Zinc    | 0.27   |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 22:03 | 1       |

**Method: 6010B - Total Metals**

| Analyte   | Result | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony  | <1.2   |           | 1.2  | 0.24  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Arsenic   | 4.7    |           | 0.58 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Barium    | 52     |           | 0.58 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Beryllium | 0.51   |           | 0.23 | 0.050 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Cadmium   | 0.35   |           | 0.12 | 0.033 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Calcium   | 11000  | B         | 12   | 3.7   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:08 | 1       |
| Chromium  | 17     |           | 0.58 | 0.099 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Cobalt    | 7.5    |           | 0.29 | 0.065 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Copper    | 25     |           | 0.58 | 0.13  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Iron      | 18000  |           | 12   | 4.5   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:08 | 1       |
| Lead      | 130    |           | 0.29 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Magnesium | 23000  |           | 5.8  | 2.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Manganese | 390    |           | 0.58 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Nickel    | 18     |           | 0.58 | 0.16  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:08 | 1       |
| Potassium | 1100   |           | 29   | 4.7   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Selenium  | <0.58  |           | 0.58 | 0.29  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Silver    | <0.29  |           | 0.29 | 0.068 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Sodium    | 520    | B         | 58   | 7.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Thallium  | <0.58  |           | 0.58 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Vanadium  | 18     |           | 0.29 | 0.084 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 1       |
| Zinc      | 110    | B ^       | 1.2  | 0.37  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:59 | 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 |   | 04/20/15 13:30 | 04/21/15 13:28 | 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 |   | 04/20/15 15:30 | 04/21/15 14:24 | 1       |

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

| Analyte | Result | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 38     |           | 17 | 6.0 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:17 | 1       |

**General Chemistry**

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH      | 8.14   |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 16:02 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-1(0-5)-041315**

**Lab Sample ID: 500-94625-15**

**Date Collected: 04/13/15 15:40**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 87.8**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <5.7   |           | 5.7 | 2.5  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Benzene                    | <5.7   | F1        | 5.7 | 0.78 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Bromodichloromethane       | <5.7   | F1        | 5.7 | 0.98 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Bromoform                  | <5.7   | F1        | 5.7 | 1.3  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Bromomethane               | <5.7   | F1        | 5.7 | 1.7  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Carbon disulfide           | <5.7   |           | 5.7 | 0.85 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Carbon tetrachloride       | <5.7   | F1        | 5.7 | 1.0  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Chlorobenzene              | <5.7   | F1        | 5.7 | 0.58 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Chloroethane               | <5.7   | F1        | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Chloroform                 | <5.7   | F1        | 5.7 | 0.65 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Chloromethane              | <5.7   |           | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| cis-1,2-Dichloroethene     | <5.7   | F1        | 5.7 | 0.81 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| cis-1,3-Dichloropropene    | <5.7   | F1        | 5.7 | 0.75 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Dibromochloromethane       | <5.7   | F1        | 5.7 | 0.99 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,1-Dichloroethane         | <5.7   | F1        | 5.7 | 0.90 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,2-Dichloroethane         | <5.7   | F1        | 5.7 | 0.84 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,1,1-Dichloroethene       | <5.7   | F1        | 5.7 | 0.92 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,2-Dichloropropane        | <5.7   | F1        | 5.7 | 0.86 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,3-Dichloropropene, Total | <5.7   |           | 5.7 | 0.75 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Ethylbenzene               | <5.7   | F1        | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 2-Hexanone                 | <5.7   |           | 5.7 | 1.6  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Methylene Chloride         | <5.7   | F1        | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Methyl Ethyl Ketone        | <5.7   |           | 5.7 | 2.1  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| methyl isobutyl ketone     | <5.7   | F1        | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Methyl tert-butyl ether    | <5.7   | F1        | 5.7 | 0.94 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Styrene                    | <5.7   | F1        | 5.7 | 0.75 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,1,1,2-Tetrachloroethane  | <5.7   | F1        | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Tetrachloroethene          | <5.7   | F1        | 5.7 | 0.87 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Toluene                    | <5.7   | F1        | 5.7 | 0.80 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| trans-1,2-Dichloroethene   | <5.7   | F1        | 5.7 | 0.78 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| trans-1,3-Dichloropropene  | <5.7   | F1        | 5.7 | 1.0  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,1,1-Trichloroethane      | <5.7   | F1        | 5.7 | 0.85 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| 1,1,2-Trichloroethane      | <5.7   | F1        | 5.7 | 0.78 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Trichloroethene            | <5.7   | F1        | 5.7 | 0.94 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Vinyl chloride             | <5.7   | F1        | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |
| Xylenes, Total             | <11    | F1        | 11  | 0.52 | ug/Kg | ☼ |          | 04/17/15 15:46 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 15:46 | 1       |
| Dibromofluoromethane         | 113       |           | 75 - 120 |          | 04/17/15 15:46 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 118       |           | 70 - 134 |          | 04/17/15 15:46 | 1       |
| Toluene-d8 (Surr)            | 108       |           | 75 - 122 |          | 04/17/15 15:46 | 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 | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-1(0-5)-041315**

**Lab Sample ID: 500-94625-15**

Date Collected: 04/13/15 15:40

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 87.8

**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 | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2,4,6-Trichlorophenol       | <370       |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2,4-Dichlorophenol          | <370       |           | 370 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2,4-Dimethylphenol          | <370       |           | 370 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2,4-Dinitrophenol           | <750       | *         | 750 | 650 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2,4-Dinitrotoluene          | <190       |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2,6-Dinitrotoluene          | <190       |           | 190 | 73  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Chloronaphthalene         | <190       |           | 190 | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Chlorophenol              | <190       |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Methylnaphthalene         | <37        |           | 37  | 6.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Methylphenol              | <190       |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Nitroaniline              | <190       |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Nitrophenol               | <370       |           | 370 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 3 & 4 Methylphenol          | <190       |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 3,3'-Dichlorobenzidine      | <190       |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 3-Nitroaniline              | <370       |           | 370 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 4,6-Dinitro-2-methylphenol  | <370       |           | 370 | 300 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 4-Bromophenyl phenyl ether  | <190       |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 4-Chloro-3-methylphenol     | <370       |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 4-Chloroaniline             | <750       |           | 750 | 170 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 4-Chlorophenyl phenyl ether | <190       |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 4-Nitroaniline              | <370       |           | 370 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 4-Nitrophenol               | <750       |           | 750 | 350 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Acenaphthene</b>         | <b>15</b>  | <b>J</b>  | 37  | 6.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Acenaphthylene              | <37        |           | 37  | 4.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Anthracene</b>           | <b>45</b>  |           | 37  | 6.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>410</b> |           | 37  | 5.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>430</b> |           | 37  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>580</b> |           | 37  | 8.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>240</b> |           | 37  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>290</b> |           | 37  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Bis(2-chloroethoxy)methane  | <190       |           | 190 | 38  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Bis(2-chloroethyl)ether     | <190       |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Bis(2-ethylhexyl) phthalate | <190       |           | 190 | 68  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Butyl benzyl phthalate      | <190       |           | 190 | 71  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Carbazole                   | <190       |           | 190 | 96  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Chrysene</b>             | <b>480</b> |           | 37  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Dibenz(a,h)anthracene       | <37        |           | 37  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Dibenzofuran                | <190       |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Diethyl phthalate           | <190       |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Dimethyl phthalate          | <190       |           | 190 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Di-n-butyl phthalate        | <190       |           | 190 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Di-n-octyl phthalate        | <190       |           | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Fluoranthene</b>         | <b>830</b> |           | 37  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Fluorene</b>             | <b>16</b>  | <b>J</b>  | 37  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Hexachlorobenzene           | <75        |           | 75  | 8.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Hexachlorobutadiene         | <190       |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Hexachlorocyclopentadiene   | <750       |           | 750 | 210 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Hexachloroethane            | <190       |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-1(0-5)-041315**

**Lab Sample ID: 500-94625-15**

Date Collected: 04/13/15 15:40

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 87.8

**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>310</b>  |           | 37       | 9.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Isophorone                    | <190        |           | 190      | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Naphthalene                   | <37         |           | 37       | 5.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Nitrobenzene                  | <37         |           | 37       | 9.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| N-Nitrosodi-n-propylamine     | <190        |           | 190      | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| N-Nitrosodiphenylamine        | <190        |           | 190      | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Pentachlorophenol             | <750        |           | 750      | 600 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Phenanthrene</b>           | <b>350</b>  |           | 37       | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Phenol                        | <190        |           | 190      | 82  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| <b>Pyrene</b>                 | <b>1000</b> |           | 37       | 7.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Surrogate                     | %Recovery   | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol          | 50          |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Fluorobiphenyl              | 47          |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| 2-Fluorophenol                | 45          |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Nitrobenzene-d5               | 49          |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Phenol-d5                     | 34          |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 07:55 | 1       |
| Terphenyl-d14                 | 82          |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 07:55 | 1       |

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

| Analyte          | Result       | Qualifier  | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050       |            | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| <b>Barium</b>    | <b>0.44</b>  | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Beryllium        | <0.0040      |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Cadmium          | <0.0050      |            | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 19:11 | 1       |
| Chromium         | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Cobalt           | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Copper           | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Iron             | <0.20        |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Lead             | <0.0075      |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 19:11 | 1       |
| <b>Manganese</b> | <b>1.1</b>   |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Nickel           | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Selenium         | <0.050       |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| Silver           | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:26 | 1       |
| <b>Zinc</b>      | <b>0.080</b> | <b>J B</b> | 0.20   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 19:11 | 1       |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.041</b>  | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Barium</b>    | <b>0.50</b>   |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Beryllium</b> | <b>0.0045</b> |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| Cadmium          | <0.0050       |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 22:09 | 1       |
| <b>Chromium</b>  | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Cobalt</b>    | <b>0.031</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Copper</b>    | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Iron</b>      | <b>130</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Lead</b>      | <b>0.19</b>   |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 22:09 | 1       |
| <b>Manganese</b> | <b>0.95</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Nickel</b>    | <b>0.091</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: LP-1(0-5)-041315**

**Lab Sample ID: 500-94625-15**

Date Collected: 04/13/15 15:40

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 05:24 | 1       |
| <b>Zinc</b> | <b>0.60</b> |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 22:09 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier  | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|------------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.1         |            | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Arsenic</b>   | <b>5.0</b>   |            | 0.55 | 0.25  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Barium</b>    | <b>41</b>    |            | 0.55 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Beryllium</b> | <b>0.46</b>  |            | 0.22 | 0.048 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Cadmium</b>   | <b>0.21</b>  |            | 0.11 | 0.032 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Calcium</b>   | <b>52000</b> | <b>B</b>   | 110  | 34    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 14:31 | 10      |
| <b>Chromium</b>  | <b>13</b>    |            | 0.55 | 0.094 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Cobalt</b>    | <b>6.6</b>   |            | 0.27 | 0.062 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Copper</b>    | <b>19</b>    |            | 0.55 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Iron</b>      | <b>16000</b> |            | 11   | 4.1   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:12 | 1       |
| <b>Lead</b>      | <b>48</b>    |            | 0.27 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Magnesium</b> | <b>26000</b> |            | 5.5  | 2.2   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Manganese</b> | <b>410</b>   |            | 0.55 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Nickel</b>    | <b>19</b>    |            | 0.53 | 0.14  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:12 | 1       |
| <b>Potassium</b> | <b>1100</b>  |            | 27   | 4.5   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| Selenium         | <0.55        |            | 0.55 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| Silver           | <0.27        |            | 0.27 | 0.064 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Sodium</b>    | <b>710</b>   | <b>B</b>   | 55   | 7.2   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| Thallium         | <0.55        |            | 0.55 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Vanadium</b>  | <b>18</b>    |            | 0.27 | 0.080 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 1       |
| <b>Zinc</b>      | <b>73</b>    | <b>B ^</b> | 1.1  | 0.35  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 04:04 | 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 |   | 04/20/15 13:30 | 04/21/15 13:30 | 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 |   | 04/20/15 15:30 | 04/21/15 14:26 | 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> |           | 16 | 5.7 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:19 | 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   |   |          | 04/17/15 16:06 | 1       |

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| X         | Surrogate is outside control limits                                                                            |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                              |

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| F2        | MS/MSD RPD exceeds 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. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## 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           | 04-30-16        |

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             |

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# 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. Babuskumar  
Company: Weston Solutions, Inc.  
Address: 300 Plaza Circle  
Address: Mundelein IL  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-94625  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 1  
Temperature °C of Cooler: \_\_\_\_\_

| Client                 |        | Client Project #    |      | Preservative |                 | Parameter |      | Matrix          |        | Preservative Key |    |
|------------------------|--------|---------------------|------|--------------|-----------------|-----------|------|-----------------|--------|------------------|----|
| Weston                 |        | IDOT 014            |      |              |                 |           |      |                 |        |                  |    |
| Project Name           |        | Lab Project #       |      | Date         |                 | Time      |      | # of Containers |        | Comments         |    |
| IDOT 014 Wheeling      |        |                     |      | 4/13         |                 | 1505      |      | 2               |        |                  |    |
| Project Location/State |        | Lab PM              |      | Date         |                 | Time      |      | # of Containers |        | Comments         |    |
| Wheeling/IL            |        | wright              |      | 4/13         |                 | 1510      |      | 2               |        |                  |    |
| Sampler                |        | Lab PM              |      | Date         |                 | Time      |      | # of Containers |        | Comments         |    |
| Colomb                 |        | wright              |      | 4/13         |                 | 1515      |      | 2               |        |                  |    |
| Lab ID                 | MS/MSD | Sample ID           | Date | Time         | # of Containers | Matrix    | VOCs | SVOCs           | Metals | Temp/SPUP        | pH |
| 9                      |        | MS-3 (0-5)-041315   | 4/13 | 1505         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 10                     |        | MS-2 (0-5)-041315   | 4/13 | 1510         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 11                     |        | MS-2 (5-10)-041315  | 4/13 | 1515         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 12                     |        | MS-2 (10-15)-041315 | 4/13 | 1526         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 13                     |        | MS-1 (0-5)-041315   | 4/13 | 1525         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 14                     |        | LP-2 (0-5)-041315   | 4/13 | 1535         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 15                     |        | LP-1 (0-5)-041315   | 4/13 | 1540         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |

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

|                                                                                                   |                                                                                               |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>4/14/15</u> Time: <u>1102</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/14/15</u> Time: <u>1100</u>     |
| Relinquished By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>4/14/15</u> Time: <u>1300</u>     | Received By: <u>[Signature]</u> Company: <u>TA-CHE</u> Date: <u>4/14/15</u> Time: <u>1300</u> |

Lab Courier: [Signature]  
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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
600 W Dundee Road (ISGS Site No. 2646-26)

City: Wheeling 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: 42.139431858 Longitude: -87.931058827  
(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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd

Latitude: 42.139431858 Longitude: -87.931058827

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 THROUGH MS-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2646-26. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL 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 REPORT - JOB ID: 500-94625-1.  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

*William F. Karlovitz*  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

25 June 2015

Date:



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



**Summary Table of ISGS Site No. 2646-26**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

| Field Sample ID             | MS-1(0-5)-041315 | MS-2(0-5)-041315 | MS-2(5-10)-041315 | MS-2(10-15)-041315 | MS-3(0-5)-041315 | Soil Reference Concentrations <sup>A</sup> |
|-----------------------------|------------------|------------------|-------------------|--------------------|------------------|--------------------------------------------|
| Sample Date                 | 4/13/2015        | 4/13/2015        | 4/13/2015         | 4/13/2015          | 4/13/2015        |                                            |
| Location ID                 | MS-1             | MS-2             | MS-2              | MS-2               | MS-3             |                                            |
| Depth                       | 0 - 5            | 0 - 5            | 5 - 10            | 10 - 15            | 0 - 5            |                                            |
| ISGS Site No.               | 2646-26          | 2646-26          | 2646-26           | 2646-26            | 2646-26          |                                            |
| <b>Parameter</b>            |                  |                  |                   |                    |                  |                                            |
| Laboratory pH (s.u.)        | 8.42             | 8.41             | 8.18              | 8.15               | 8.46             | <6.25,>9.0                                 |
| <b>VOCs (ug/kg)</b>         | No Exceedances   |                  |                   |                    |                  |                                            |
| <b>SVOCs (ug/kg)</b>        |                  |                  |                   |                    |                  |                                            |
| Benzo(a)pyrene              | 410              | 88               | ND                | ND                 | 86               | 90 / 1300 / 2100                           |
| <b>Total Metals (mg/kg)</b> |                  |                  |                   |                    |                  |                                            |
| Antimony, Total             | ND               | ND               | ND                | 0.32 J             | ND               | 5                                          |
| Arsenic, Total              | 4.7 J            | 5.4 J            | 2.6 J             | 3.6 J              | 4.6 J            | 11.3 / 13                                  |
| Barium, Total               | 50               | 63               | 5.8               | 10                 | 37               | 1500                                       |
| Beryllium, Total            | 0.44             | 0.76             | 0.22              | 0.26               | 0.38             | 22                                         |
| Cadmium, Total              | 0.51             | ND               | 0.15              | 0.094 J            | 0.28             | 5.2                                        |
| Calcium, Total              | 31000 J          | 5300 J           | 80000 J           | 87000 J            | 28000 J          | ---                                        |
| Chromium, Total             | 13               | 16               | 5.9               | 6.5                | 11               | 21                                         |
| Cobalt, Total               | 7                | 9                | 6.3               | 4.7                | 5.8              | 20                                         |
| Copper, Total               | 23               | 16               | 14                | 12                 | 19               | 2900                                       |
| Iron, Total                 | 18000 J          | 17000 J          | 8200 J            | 14000 J            | 14000 J          | 15000 / 15900                              |
| Lead, Total                 | 110 J+           | 29 J+            | 8.4 J+            | 13 J+              | 71 J+            | 107                                        |
| Magnesium, Total            | 30000 J          | 4600 J           | 40000 J-          | 42000 J-           | 44000 J          | 325000                                     |
| Manganese, Total            | 410 J-           | 230 J-           | 600 J-            | 340 J-             | 260 J-           | 630 / 636                                  |
| Mercury, Total              | 0.046 J+         | 0.04 J+          | 0.011 J           | 0.012 J            | 0.038 J+         | 0.89                                       |
| Nickel, Total               | 27 J             | 19 J             | 19 J              | 23 J               | 20 J             | 100                                        |
| Potassium, Total            | 850 J+           | 910 J+           | 650 J+            | 730 J+             | 780 J+           | ---                                        |
| Selenium, Total             | 0.48 J           | ND               | 0.34 J            | ND                 | 0.35 J           | 1.3                                        |
| Silver, Total               | ND               | ND               | ND                | ND                 | ND               | 4.4                                        |
| Sodium, Total               | 1500 B           | 2900 B           | 750 B             | 550 B              | 1500 B           |                                            |
| Thallium, Total             | ND               | ND               | ND                | ND                 | ND               | 2.6                                        |
| Vanadium, Total             | 16               | 27               | 11                | 9.1                | 14               | 550                                        |
| Zinc, Total                 | 96 J+            | 69 J+            | 46 J+             | 45 J+              | 67 J+            | 5100                                       |
| <b>TCLP Metals (mg/l)</b>   |                  |                  |                   |                    |                  |                                            |
| Arsenic, TCLP               | ND               | ND               | ND                | ND                 | ND               | 0.05                                       |
| Barium, TCLP                | 0.33 J           | 0.35 J           | 0.13 J            | 0.23 J             | 0.36 J           | 2                                          |
| Cadmium, TCLP               | 0.0046 J         | 0.0035 J         | 0.0038 J          | 0.004 J            | 0.0035 J         | 0.005                                      |
| Cobalt, TCLP                | ND               | ND               | 0.038             | 0.051              | ND               | 1                                          |
| Copper, TCLP                | ND               | ND               | ND                | ND                 | ND               | 0.65                                       |
| Iron, TCLP                  | ND               | ND               | ND                | 3.6                | ND               | 5                                          |
| Lead, TCLP                  | ND               | 0.019            | ND                | 0.0098             | 0.0081           | 0.0075                                     |
| Manganese, TCLP             | 1.2              | 1.9              | 1.5               | 4.6                | 0.86             | 0.15                                       |
| Nickel, TCLP                | ND               | ND               | ND                | ND                 | ND               | 0.1                                        |
| Zinc, TCLP                  | ND               | ND               | ND                | ND                 | ND               | 5                                          |
| <b>SPLP Metals (mg/l)</b>   |                  |                  |                   |                    |                  |                                            |
| Arsenic, SPLP               | 0.038 J          | 0.032 J          | 0.037 J           | ND                 | 0.029 J          | 0.05                                       |
| Barium, SPLP                | 0.74             | 0.76             | 0.26 J            | 0.07 J             | 0.45 J           | 2                                          |
| Beryllium, SPLP             | 0.0063           | 0.0055           | 0.0042            | ND                 | ND               | 0.004                                      |
| Cadmium, SPLP               | 0.0021 J         | ND               | ND                | ND                 | ND               | 0.005                                      |
| Chromium, SPLP              | 0.2              | 0.16             | 0.11              | 0.018 J            | 0.11             | 0.1                                        |
| Cobalt, SPLP                | 0.046            | 0.038            | 0.048             | ND                 | 0.026            | 1                                          |
| Copper, SPLP                | 0.13             | 0.14             | 0.16              | 0.025              | 0.11             | 0.65                                       |
| Iron, SPLP                  | 180              | 140              | 70                | 3.5                | 98               | 5                                          |
| Lead, SPLP                  | 0.34             | 0.34             | 0.082             | ND                 | 0.24             | 0.0075                                     |
| Manganese, SPLP             | 1.5              | 0.95             | 0.38              | 0.064              | 0.71             | 0.15                                       |
| Mercury, SPLP               | 0.0004           | ND               | ND                | ND                 | ND               | 0.002                                      |
| Nickel, SPLP                | 0.13             | 0.1              | 0.14              | ND                 | 0.077            | 0.1                                        |
| Zinc, SPLP                  | 1                | 0.58             | 0.54              | 0.06 J             | 1.9              | 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 low.

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: 500-94625-1  
Client Project/Site: IDOT - Wheeling - WO 014

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
4/23/2015 10:11:06 AM

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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[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 - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-3(0-5)-041315**

**Lab Sample ID: 500-94625-9**

**Date Collected: 04/13/15 15:05**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 86.4**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <5.8   |           | 5.8 | 2.5  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Benzene                    | <5.8   |           | 5.8 | 0.79 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Bromodichloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Bromoform                  | <5.8   |           | 5.8 | 1.3  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Bromomethane               | <5.8   |           | 5.8 | 1.7  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Carbon disulfide           | <5.8   |           | 5.8 | 0.86 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Carbon tetrachloride       | <5.8   |           | 5.8 | 1.1  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Chlorobenzene              | <5.8   |           | 5.8 | 0.59 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Chloroethane               | <5.8   |           | 5.8 | 1.6  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Chloroform                 | <5.8   |           | 5.8 | 0.67 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Chloromethane              | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| cis-1,2-Dichloroethene     | <5.8   |           | 5.8 | 0.82 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| cis-1,3-Dichloropropene    | <5.8   |           | 5.8 | 0.76 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Dibromochloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,1-Dichloroethane         | <5.8   |           | 5.8 | 0.92 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,2-Dichloroethane         | <5.8   |           | 5.8 | 0.86 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,1-Dichloroethene         | <5.8   |           | 5.8 | 0.94 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,2-Dichloropropane        | <5.8   |           | 5.8 | 0.88 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,3-Dichloropropene, Total | <5.8   |           | 5.8 | 0.76 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Ethylbenzene               | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 2-Hexanone                 | <5.8   |           | 5.8 | 1.7  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Methylene Chloride         | <5.8   |           | 5.8 | 1.6  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Methyl Ethyl Ketone        | <5.8   |           | 5.8 | 2.1  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| methyl isobutyl ketone     | <5.8   |           | 5.8 | 1.5  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Methyl tert-butyl ether    | <5.8   |           | 5.8 | 0.96 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Styrene                    | <5.8   |           | 5.8 | 0.76 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,1,1,2-Tetrachloroethane  | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Tetrachloroethene          | <5.8   |           | 5.8 | 0.88 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Toluene                    | <5.8   |           | 5.8 | 0.81 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| trans-1,2-Dichloroethene   | <5.8   |           | 5.8 | 0.80 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| trans-1,3-Dichloropropene  | <5.8   |           | 5.8 | 1.0  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,1,1-Trichloroethane      | <5.8   |           | 5.8 | 0.86 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| 1,1,2-Trichloroethane      | <5.8   |           | 5.8 | 0.79 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Trichloroethene            | <5.8   |           | 5.8 | 0.95 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Vinyl chloride             | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.52 | ug/Kg | ☼ |          | 04/17/15 13:22 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 98        |           | 70 - 122 |          | 04/17/15 13:22 | 1       |
| Dibromofluoromethane         | 108       |           | 75 - 120 |          | 04/17/15 13:22 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 112       |           | 70 - 134 |          | 04/17/15 13:22 | 1       |
| Toluene-d8 (Surr)            | 108       |           | 75 - 122 |          | 04/17/15 13:22 | 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 | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-3(0-5)-041315**

**Lab Sample ID: 500-94625-9**

**Date Collected: 04/13/15 15:05**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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       | <370       |           | 370 | 84  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2,4,6-Trichlorophenol       | <370       |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2,4-Dichlorophenol          | <370       |           | 370 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2,4-Dimethylphenol          | <370       |           | 370 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2,4-Dinitrophenol           | <750       | *         | 750 | 650 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2,4-Dinitrotoluene          | <190       |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2,6-Dinitrotoluene          | <190       |           | 190 | 73  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2-Chloronaphthalene         | <190       |           | 190 | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2-Chlorophenol              | <190       |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2-Methylnaphthalene         | <37        |           | 37  | 6.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2-Methylphenol              | <190       |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2-Nitroaniline              | <190       |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 2-Nitrophenol               | <370       |           | 370 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 3 & 4 Methylphenol          | <190       |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 3,3'-Dichlorobenzidine      | <190       |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 3-Nitroaniline              | <370       |           | 370 | 110 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 4,6-Dinitro-2-methylphenol  | <370       |           | 370 | 300 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 4-Bromophenyl phenyl ether  | <190       |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 4-Chloro-3-methylphenol     | <370       |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 4-Chloroaniline             | <750       |           | 750 | 170 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 4-Chlorophenyl phenyl ether | <190       |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 4-Nitroaniline              | <370       |           | 370 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| 4-Nitrophenol               | <750       |           | 750 | 350 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Acenaphthene                | <37        |           | 37  | 6.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Acenaphthylene              | <37        |           | 37  | 4.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Anthracene</b>           | <b>19</b>  | <b>J</b>  | 37  | 6.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>73</b>  |           | 37  | 5.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>86</b>  |           | 37  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>110</b> |           | 37  | 8.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>87</b>  |           | 37  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>53</b>  |           | 37  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Bis(2-chloroethoxy)methane  | <190       |           | 190 | 38  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Bis(2-chloroethyl)ether     | <190       |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Bis(2-ethylhexyl) phthalate | <190       |           | 190 | 68  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Butyl benzyl phthalate      | <190       |           | 190 | 70  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Carbazole                   | <190       |           | 190 | 96  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Chrysene</b>             | <b>94</b>  |           | 37  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Dibenz(a,h)anthracene       | <37        |           | 37  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Dibenzofuran                | <190       |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Diethyl phthalate           | <190       |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Dimethyl phthalate          | <190       |           | 190 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Di-n-butyl phthalate        | <190       |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Di-n-octyl phthalate        | <190       |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| <b>Fluoranthene</b>         | <b>210</b> |           | 37  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Fluorene                    | <37        |           | 37  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Hexachlorobenzene           | <75        |           | 75  | 8.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Hexachlorobutadiene         | <190       |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Hexachlorocyclopentadiene   | <750       |           | 750 | 210 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |
| Hexachloroethane            | <190       |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 18:50 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-3(0-5)-041315**

**Lab Sample ID: 500-94625-9**

Date Collected: 04/13/15 15:05

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 86.4

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

| Analyte                       | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| <b>Indeno[1,2,3-cd]pyrene</b> | <b>66</b>        |                  | 37            | 9.6 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Isophorone                    | <190             |                  | 190           | 42  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Naphthalene                   | <37              |                  | 37            | 5.7 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Nitrobenzene                  | <37              |                  | 37            | 9.2 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| N-Nitrosodi-n-propylamine     | <190             |                  | 190           | 45  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| N-Nitrosodiphenylamine        | <190             |                  | 190           | 44  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Pentachlorophenol             | <750             |                  | 750           | 590 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| <b>Phenanthrene</b>           | <b>85</b>        |                  | 37            | 5.2 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Phenol                        | <190             |                  | 190           | 82  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| <b>Pyrene</b>                 | <b>160</b>       |                  | 37            | 7.4 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 2,4,6-Tribromophenol          | 58               |                  | 35 - 137      |     |       |   | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| 2-Fluorobiphenyl              | 47               |                  | 25 - 119      |     |       |   | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| 2-Fluorophenol                | 37               |                  | 25 - 110      |     |       |   | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Nitrobenzene-d5               | 34               |                  | 25 - 115      |     |       |   | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Phenol-d5                     | 34               |                  | 31 - 110      |     |       |   | 04/17/15 17:30  | 04/21/15 18:50  | 1              |
| Terphenyl-d14                 | 66               |                  | 36 - 134      |     |       |   | 04/17/15 17:30  | 04/21/15 18:50  | 1              |

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

| Analyte          | Result        | Qualifier  | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050        |            | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| <b>Barium</b>    | <b>0.36</b>   | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| Beryllium        | <0.0040       |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| <b>Cadmium</b>   | <b>0.0035</b> | <b>J</b>   | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:09 | 1       |
| Chromium         | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| Cobalt           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| <b>Copper</b>    | <b>0.010</b>  | <b>J B</b> | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| Iron             | <0.20         |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| <b>Lead</b>      | <b>0.0081</b> |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:09 | 1       |
| <b>Manganese</b> | <b>0.86</b>   |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| Nickel           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| Selenium         | <0.050        |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| Silver           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:17 | 1       |
| <b>Zinc</b>      | <b>0.19</b>   | <b>B</b>   | 0.10   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:09 | 1       |

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

| Analyte          | Result       | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.029</b> | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| <b>Barium</b>    | <b>0.45</b>  | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:31 | 1       |
| <b>Chromium</b>  | <b>0.11</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| <b>Cobalt</b>    | <b>0.026</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| <b>Copper</b>    | <b>0.11</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| <b>Iron</b>      | <b>98</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| <b>Lead</b>      | <b>0.24</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:31 | 1       |
| <b>Manganese</b> | <b>0.71</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| <b>Nickel</b>    | <b>0.077</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-3(0-5)-041315**

**Lab Sample ID: 500-94625-9**

Date Collected: 04/13/15 15:05

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 04:47 | 1       |
| <b>Zinc</b> | <b>1.9</b> |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:31 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier  | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|------------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.1         |            | 1.1  | 0.24  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Arsenic</b>   | <b>4.6</b>   |            | 0.57 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Barium</b>    | <b>37</b>    |            | 0.57 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Beryllium</b> | <b>0.38</b>  |            | 0.23 | 0.049 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Cadmium</b>   | <b>0.28</b>  |            | 0.11 | 0.033 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Calcium</b>   | <b>28000</b> | <b>B</b>   | 11   | 3.6   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:36 | 1       |
| <b>Chromium</b>  | <b>11</b>    |            | 0.57 | 0.098 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Cobalt</b>    | <b>5.8</b>   |            | 0.28 | 0.064 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Copper</b>    | <b>19</b>    |            | 0.57 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Iron</b>      | <b>14000</b> |            | 11   | 4.3   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:36 | 1       |
| <b>Lead</b>      | <b>71</b>    |            | 0.28 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Magnesium</b> | <b>44000</b> |            | 5.7  | 2.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Manganese</b> | <b>260</b>   |            | 0.57 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Nickel</b>    | <b>20</b>    |            | 0.56 | 0.15  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:36 | 1       |
| <b>Potassium</b> | <b>780</b>   |            | 28   | 4.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Selenium</b>  | <b>0.35</b>  | <b>J</b>   | 0.57 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| Silver           | <0.28        |            | 0.28 | 0.067 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Sodium</b>    | <b>1500</b>  | <b>B</b>   | 57   | 7.5   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| Thallium         | <0.57        |            | 0.57 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Vanadium</b>  | <b>14</b>    |            | 0.28 | 0.083 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 1       |
| <b>Zinc</b>      | <b>67</b>    | <b>B ^</b> | 1.1  | 0.36  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:27 | 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 |   | 04/20/15 13:30 | 04/21/15 13:14 | 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 |   | 04/20/15 15:30 | 04/21/15 14:10 | 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>38</b> |           | 19 | 6.7 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:06 | 1       |

**General Chemistry**

| Analyte   | Result      | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| <b>pH</b> | <b>8.46</b> |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:52 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(0-5)-041315**

**Lab Sample ID: 500-94625-10**

**Date Collected: 04/13/15 15:10**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 83.3**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <6.0   |           | 6.0 | 2.6  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Benzene                    | <6.0   |           | 6.0 | 0.82 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Bromodichloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Bromoform                  | <6.0   |           | 6.0 | 1.4  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Bromomethane               | <6.0   |           | 6.0 | 1.8  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Carbon disulfide           | <6.0   |           | 6.0 | 0.90 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Carbon tetrachloride       | <6.0   |           | 6.0 | 1.1  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Chlorobenzene              | <6.0   |           | 6.0 | 0.61 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Chloroethane               | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Chloroform                 | <6.0   |           | 6.0 | 0.69 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Chloromethane              | <6.0   |           | 6.0 | 1.3  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| cis-1,2-Dichloroethene     | <6.0   |           | 6.0 | 0.85 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| cis-1,3-Dichloropropene    | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Dibromochloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,1-Dichloroethane         | <6.0   |           | 6.0 | 0.95 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,2-Dichloroethane         | <6.0   |           | 6.0 | 0.89 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,1,1-Dichloroethane       | <6.0   |           | 6.0 | 0.97 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,2-Dichloropropane        | <6.0   |           | 6.0 | 0.91 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,3-Dichloropropene, Total | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Ethylbenzene               | <6.0   |           | 6.0 | 1.2  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 2-Hexanone                 | <6.0   |           | 6.0 | 1.7  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Methylene Chloride         | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Methyl Ethyl Ketone        | <6.0   |           | 6.0 | 2.2  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| methyl isobutyl ketone     | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Methyl tert-butyl ether    | <6.0   |           | 6.0 | 0.99 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Styrene                    | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,1,1,2-Tetrachloroethane  | <6.0   |           | 6.0 | 1.2  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Tetrachloroethene          | <6.0   |           | 6.0 | 0.92 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Toluene                    | <6.0   |           | 6.0 | 0.84 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| trans-1,2-Dichloroethene   | <6.0   |           | 6.0 | 0.83 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| trans-1,3-Dichloropropene  | <6.0   |           | 6.0 | 1.1  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,1,1-Trichloroethane      | <6.0   |           | 6.0 | 0.90 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| 1,1,2-Trichloroethane      | <6.0   |           | 6.0 | 0.82 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Trichloroethene            | <6.0   |           | 6.0 | 0.99 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Vinyl chloride             | <6.0   |           | 6.0 | 1.3  | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.54 | ug/Kg | ☼ |          | 04/17/15 13:46 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 98        |           | 70 - 122 |          | 04/17/15 13:46 | 1       |
| Dibromofluoromethane         | 111       |           | 75 - 120 |          | 04/17/15 13:46 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 121       |           | 70 - 134 |          | 04/17/15 13:46 | 1       |
| Toluene-d8 (Surr)            | 109       |           | 75 - 122 |          | 04/17/15 13:46 | 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 | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 1,2-Dichlorobenzene          | <200   |           | 200 | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 1,3-Dichlorobenzene          | <200   |           | 200 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 1,4-Dichlorobenzene          | <200   |           | 200 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2,2'-oxybis[1-chloropropane] | <200   |           | 200 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(0-5)-041315**

**Lab Sample ID: 500-94625-10**

Date Collected: 04/13/15 15:10

Matrix: Solid

Date Received: 04/14/15 13:00

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              | <390       |           | 390 | 89  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2,4,6-Trichlorophenol              | <390       |           | 390 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2,4-Dichlorophenol                 | <390       |           | 390 | 93  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2,4-Dimethylphenol                 | <390       |           | 390 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2,4-Dinitrophenol                  | <790       | *         | 790 | 690 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2,4-Dinitrotoluene                 | <200       |           | 200 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2,6-Dinitrotoluene                 | <200       |           | 200 | 77  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Chloronaphthalene                | <200       |           | 200 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Chlorophenol                     | <200       |           | 200 | 67  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Methylnaphthalene                | <39        |           | 39  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Methylphenol                     | <200       |           | 200 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Nitroaniline                     | <200       |           | 200 | 53  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Nitrophenol                      | <390       |           | 390 | 92  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 3 & 4 Methylphenol                 | <200       |           | 200 | 65  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 3,3'-Dichlorobenzidine             | <200       |           | 200 | 55  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 3-Nitroaniline                     | <390       |           | 390 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 4,6-Dinitro-2-methylphenol         | <390       |           | 390 | 310 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 4-Bromophenyl phenyl ether         | <200       |           | 200 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 4-Chloro-3-methylphenol            | <390       |           | 390 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 4-Chloroaniline                    | <790       |           | 790 | 180 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 4-Chlorophenyl phenyl ether        | <200       |           | 200 | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 4-Nitroaniline                     | <390       |           | 390 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 4-Nitrophenol                      | <790       |           | 790 | 370 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Acenaphthene                       | <39        |           | 39  | 7.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Acenaphthylene                     | <39        |           | 39  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Anthracene</b>                  | <b>14</b>  | <b>J</b>  | 39  | 6.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Benzo[a]anthracene</b>          | <b>94</b>  |           | 39  | 5.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Benzo[a]pyrene</b>              | <b>88</b>  |           | 39  | 7.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Benzo[b]fluoranthene</b>        | <b>120</b> |           | 39  | 8.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Benzo[g,h,i]perylene</b>        | <b>56</b>  |           | 39  | 13  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Benzo[k]fluoranthene</b>        | <b>58</b>  |           | 39  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Bis(2-chloroethoxy)methane         | <200       |           | 200 | 40  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Bis(2-chloroethyl)ether            | <200       |           | 200 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Bis(2-ethylhexyl) phthalate</b> | <b>87</b>  | <b>J</b>  | 200 | 71  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Butyl benzyl phthalate             | <200       |           | 200 | 74  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Carbazole                          | <200       |           | 200 | 100 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Chrysene</b>                    | <b>94</b>  |           | 39  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Dibenz(a,h)anthracene              | <39        |           | 39  | 7.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Dibenzofuran                       | <200       |           | 200 | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Diethyl phthalate                  | <200       |           | 200 | 66  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Dimethyl phthalate                 | <200       |           | 200 | 51  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Di-n-butyl phthalate               | <200       |           | 200 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Di-n-octyl phthalate               | <200       |           | 200 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Fluoranthene</b>                | <b>140</b> |           | 39  | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Fluorene                           | <39        |           | 39  | 5.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Hexachlorobenzene                  | <79        |           | 79  | 9.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Hexachlorobutadiene                | <200       |           | 200 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Hexachlorocyclopentadiene          | <790       |           | 790 | 220 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Hexachloroethane                   | <200       |           | 200 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(0-5)-041315**

**Lab Sample ID: 500-94625-10**

Date Collected: 04/13/15 15:10

Matrix: Solid

Date Received: 04/14/15 13:00

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    | <39        |           | 39  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Isophorone                | <200       |           | 200 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Naphthalene               | <39        |           | 39  | 6.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Nitrobenzene              | <39        |           | 39  | 9.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| N-Nitrosodi-n-propylamine | <200       |           | 200 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| N-Nitrosodiphenylamine    | <200       |           | 200 | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Pentachlorophenol         | <790       |           | 790 | 630 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Phenanthrene</b>       | <b>71</b>  |           | 39  | 5.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Phenol                    | <200       |           | 200 | 87  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| <b>Pyrene</b>             | <b>240</b> |           | 39  | 7.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:57 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 45        |           | 35 - 137 | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Fluorobiphenyl     | 38        |           | 25 - 119 | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| 2-Fluorophenol       | 43        |           | 25 - 110 | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Nitrobenzene-d5      | 39        |           | 25 - 115 | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Phenol-d5            | 33        |           | 31 - 110 | 04/17/15 17:30 | 04/21/15 05:57 | 1       |
| Terphenyl-d14        | 82        |           | 36 - 134 | 04/17/15 17:30 | 04/21/15 05:57 | 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 |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| <b>Barium</b>    | <b>0.35</b>   | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| Beryllium        | <0.0040       |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| <b>Cadmium</b>   | <b>0.0035</b> | <b>J</b>   | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:14 | 1       |
| Chromium         | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| Cobalt           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| Copper           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| Iron             | <0.20         |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| <b>Lead</b>      | <b>0.019</b>  |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:14 | 1       |
| <b>Manganese</b> | <b>1.9</b>    |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| Nickel           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| Selenium         | <0.050        |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| Silver           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:23 | 1       |
| <b>Zinc</b>      | <b>0.052</b>  | <b>J B</b> | 0.10   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:14 | 1       |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.032</b>  | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Barium</b>    | <b>0.76</b>   |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Beryllium</b> | <b>0.0055</b> |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| Cadmium          | <0.0050       |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:38 | 1       |
| <b>Chromium</b>  | <b>0.16</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Cobalt</b>    | <b>0.038</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Copper</b>    | <b>0.14</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Iron</b>      | <b>140</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Lead</b>      | <b>0.34</b>   |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:38 | 1       |
| <b>Manganese</b> | <b>0.95</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Nickel</b>    | <b>0.10</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(0-5)-041315**

**Lab Sample ID: 500-94625-10**

Date Collected: 04/13/15 15:10

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 04:53 | 1       |
| <b>Zinc</b> | <b>0.58</b> |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:38 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result        | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.2          |           | 1.2  | 0.24  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Arsenic</b>   | <b>5.4</b>    |           | 0.58 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Barium</b>    | <b>63</b>     |           | 0.58 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Beryllium</b> | <b>0.76</b>   |           | 0.23 | 0.050 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| Cadmium          | <0.12         |           | 0.12 | 0.033 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Calcium</b>   | <b>5300</b>   |           | 12   | 3.7   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Chromium</b>  | <b>16</b>     |           | 0.58 | 0.099 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Cobalt</b>    | <b>9.0</b>    |           | 0.29 | 0.065 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Copper</b>    | <b>16</b>     |           | 0.58 | 0.13  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Iron</b>      | <b>17000</b>  |           | 11   | 4.3   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:48 | 1       |
| <b>Lead</b>      | <b>29</b>     |           | 0.29 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Magnesium</b> | <b>4600</b>   |           | 5.8  | 2.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Manganese</b> | <b>230</b>    |           | 0.58 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Nickel</b>    | <b>19</b>     |           | 0.55 | 0.15  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:48 | 1       |
| <b>Potassium</b> | <b>910</b>    |           | 29   | 4.7   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| Selenium         | <0.58         |           | 0.58 | 0.29  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| Silver           | <0.29         |           | 0.29 | 0.068 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Sodium</b>    | <b>2900 B</b> |           | 58   | 7.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| Thallium         | <0.58         |           | 0.58 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Vanadium</b>  | <b>27</b>     |           | 0.29 | 0.084 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 1       |
| <b>Zinc</b>      | <b>69 B ^</b> |           | 1.2  | 0.37  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:40 | 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 |   | 04/20/15 13:30 | 04/21/15 13:16 | 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 |   | 04/20/15 15:30 | 04/21/15 14:16 | 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>40</b> |           | 18 | 6.3 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:08 | 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   |   |          | 04/17/15 15:54 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(5-10)-041315**

**Lab Sample ID: 500-94625-11**

**Date Collected: 04/13/15 15:15**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 89.2**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <5.6   |           | 5.6 | 2.4  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Benzene                    | <5.6   |           | 5.6 | 0.77 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Bromodichloromethane       | <5.6   |           | 5.6 | 0.97 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Bromoform                  | <5.6   |           | 5.6 | 1.3  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Bromomethane               | <5.6   |           | 5.6 | 1.7  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Carbon disulfide           | <5.6   |           | 5.6 | 0.84 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Carbon tetrachloride       | <5.6   |           | 5.6 | 1.0  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Chlorobenzene              | <5.6   |           | 5.6 | 0.57 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Chloroethane               | <5.6   |           | 5.6 | 1.5  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Chloroform                 | <5.6   |           | 5.6 | 0.64 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Chloromethane              | <5.6   |           | 5.6 | 1.2  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| cis-1,2-Dichloroethene     | <5.6   |           | 5.6 | 0.79 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| cis-1,3-Dichloropropene    | <5.6   |           | 5.6 | 0.74 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Dibromochloromethane       | <5.6   |           | 5.6 | 0.98 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,1-Dichloroethane         | <5.6   |           | 5.6 | 0.89 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,2-Dichloroethane         | <5.6   |           | 5.6 | 0.83 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,1,1-Dichloroethene       | <5.6   |           | 5.6 | 0.91 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,2-Dichloropropane        | <5.6   |           | 5.6 | 0.85 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,3-Dichloropropene, Total | <5.6   |           | 5.6 | 0.74 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Ethylbenzene               | <5.6   |           | 5.6 | 1.1  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 2-Hexanone                 | <5.6   |           | 5.6 | 1.6  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Methylene Chloride         | <5.6   |           | 5.6 | 1.5  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Methyl Ethyl Ketone        | <5.6   |           | 5.6 | 2.0  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| methyl isobutyl ketone     | <5.6   |           | 5.6 | 1.5  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Methyl tert-butyl ether    | <5.6   |           | 5.6 | 0.93 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Styrene                    | <5.6   |           | 5.6 | 0.74 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,1,2,2-Tetrachloroethane  | <5.6   |           | 5.6 | 1.1  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Tetrachloroethene          | <5.6   |           | 5.6 | 0.86 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Toluene                    | <5.6   |           | 5.6 | 0.78 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| trans-1,2-Dichloroethene   | <5.6   |           | 5.6 | 0.77 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| trans-1,3-Dichloropropene  | <5.6   |           | 5.6 | 1.0  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,1,1-Trichloroethane      | <5.6   |           | 5.6 | 0.84 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| 1,1,2-Trichloroethane      | <5.6   |           | 5.6 | 0.76 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Trichloroethene            | <5.6   |           | 5.6 | 0.93 | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Vinyl chloride             | <5.6   |           | 5.6 | 1.2  | ug/Kg | * |          | 04/17/15 14:11 | 1       |
| Xylenes, Total             | <11    |           | 11  | 0.51 | ug/Kg | * |          | 04/17/15 14:11 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 14:11 | 1       |
| Dibromofluoromethane         | 111       |           | 75 - 120 |          | 04/17/15 14:11 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 70 - 134 |          | 04/17/15 14:11 | 1       |
| Toluene-d8 (Surr)            | 110       |           | 75 - 122 |          | 04/17/15 14:11 | 1       |

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

| Analyte                      | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene       | <190   |           | 190 | 40  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 44  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 42  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 47  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 43  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 06:21 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(5-10)-041315**

**Lab Sample ID: 500-94625-11**

**Date Collected: 04/13/15 15:15**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 89.2**

**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 | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2,4,6-Trichlorophenol       | <370   |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2,4-Dichlorophenol          | <370   |           | 370 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2,4-Dimethylphenol          | <370   |           | 370 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2,4-Dinitrophenol           | <740 * |           | 740 | 650 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2,4-Dinitrotoluene          | <190   |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2,6-Dinitrotoluene          | <190   |           | 190 | 73  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Chloronaphthalene         | <190   |           | 190 | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Chlorophenol              | <190   |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Methylnaphthalene         | <37    |           | 37  | 6.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Methylphenol              | <190   |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Nitroaniline              | <190   |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Nitrophenol               | <370   |           | 370 | 87  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 3 & 4 Methylphenol          | <190   |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 3,3'-Dichlorobenzidine      | <190   |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 3-Nitroaniline              | <370   |           | 370 | 110 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 4,6-Dinitro-2-methylphenol  | <370   |           | 370 | 300 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 4-Bromophenyl phenyl ether  | <190   |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 4-Chloro-3-methylphenol     | <370   |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 4-Chloroaniline             | <740   |           | 740 | 170 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 4-Chlorophenyl phenyl ether | <190   |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 4-Nitroaniline              | <370   |           | 370 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 4-Nitrophenol               | <740   |           | 740 | 350 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Acenaphthene                | <37    |           | 37  | 6.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Acenaphthylene              | <37    |           | 37  | 4.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Anthracene                  | <37    |           | 37  | 6.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Benzo[a]anthracene          | <37    |           | 37  | 5.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Benzo[a]pyrene              | <37    |           | 37  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Benzo[b]fluoranthene        | <37    |           | 37  | 8.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Benzo[g,h,i]perylene        | <37    |           | 37  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Benzo[k]fluoranthene        | <37    |           | 37  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Bis(2-chloroethoxy)methane  | <190   |           | 190 | 38  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Bis(2-chloroethyl)ether     | <190   |           | 190 | 55  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Bis(2-ethylhexyl) phthalate | <190   |           | 190 | 67  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Butyl benzyl phthalate      | <190   |           | 190 | 70  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Carbazole                   | <190   |           | 190 | 95  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Chrysene                    | <37    |           | 37  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Dibenz(a,h)anthracene       | <37    |           | 37  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Dibenzofuran                | <190   |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Diethyl phthalate           | <190   |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Dimethyl phthalate          | <190   |           | 190 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Di-n-butyl phthalate        | <190   |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Di-n-octyl phthalate        | <190   |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Fluoranthene                | <37    |           | 37  | 6.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Fluorene                    | <37    |           | 37  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Hexachlorobenzene           | <74    |           | 74  | 8.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Hexachlorobutadiene         | <190   |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Hexachlorocyclopentadiene   | <740   |           | 740 | 210 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Hexachloroethane            | <190   |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(5-10)-041315**

**Lab Sample ID: 500-94625-11**

**Date Collected: 04/13/15 15:15**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 89.2**

**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       | 9.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Isophorone                | <190      |           | 190      | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Naphthalene               | <37       |           | 37       | 5.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Nitrobenzene              | <37       |           | 37       | 9.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| N-Nitrosodi-n-propylamine | <190      |           | 190      | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| N-Nitrosodiphenylamine    | <190      |           | 190      | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Pentachlorophenol         | <740      |           | 740      | 590 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Phenanthrene              | <37       |           | 37       | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Phenol                    | <190      |           | 190      | 82  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Pyrene                    | <37       |           | 37       | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Surrogate                 | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol      | 47        |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Fluorobiphenyl          | 44        |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| 2-Fluorophenol            | 54        |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Nitrobenzene-d5           | 44        |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Phenol-d5                 | 42        |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 06:21 | 1       |
| Terphenyl-d14             | 100       |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 06:21 | 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 |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| <b>Barium</b>    | <b>0.13</b>   | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| Beryllium        | <0.0040       |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| <b>Cadmium</b>   | <b>0.0038</b> | <b>J</b>   | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:19 | 1       |
| Chromium         | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| <b>Cobalt</b>    | <b>0.038</b>  |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| <b>Copper</b>    | <b>0.015</b>  | <b>J B</b> | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| Iron             | <0.20         |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| Lead             | <0.0075       |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:19 | 1       |
| <b>Manganese</b> | <b>1.5</b>    |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| <b>Nickel</b>    | <b>0.026</b>  |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| Selenium         | <0.050        |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| Silver           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:29 | 1       |
| <b>Zinc</b>      | <b>0.15</b>   | <b>B</b>   | 0.10   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:19 | 1       |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.037</b>  | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| <b>Barium</b>    | <b>0.26</b>   | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| <b>Beryllium</b> | <b>0.0042</b> |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| Cadmium          | <0.0050       |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:44 | 1       |
| <b>Chromium</b>  | <b>0.11</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| <b>Cobalt</b>    | <b>0.048</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| <b>Copper</b>    | <b>0.16</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| <b>Iron</b>      | <b>70</b>     |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| <b>Lead</b>      | <b>0.082</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:44 | 1       |
| <b>Manganese</b> | <b>0.38</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| <b>Nickel</b>    | <b>0.14</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(5-10)-041315**

**Lab Sample ID: 500-94625-11**

Date Collected: 04/13/15 15:15

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 04:59 | 1       |
| Zinc    | 0.54   |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:44 | 1       |

**Method: 6010B - Total Metals**

| Analyte   | Result | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony  | <1.1   |           | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Arsenic   | 2.6    |           | 0.56 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Barium    | 5.8    |           | 0.56 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Beryllium | 0.22   |           | 0.22 | 0.049 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Cadmium   | 0.15   |           | 0.11 | 0.032 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Calcium   | 80000  | B         | 110  | 35    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 14:23 | 10      |
| Chromium  | 5.9    |           | 0.56 | 0.096 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Cobalt    | 6.3    |           | 0.28 | 0.063 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Copper    | 14     |           | 0.56 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Iron      | 8200   |           | 11   | 4.1   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:53 | 1       |
| Lead      | 8.4    |           | 0.28 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Magnesium | 40000  |           | 5.4  | 2.2   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:53 | 1       |
| Manganese | 600    |           | 0.56 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Nickel    | 19     |           | 0.54 | 0.15  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:53 | 1       |
| Potassium | 650    |           | 28   | 4.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Selenium  | 0.34   | J         | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Silver    | <0.28  |           | 0.28 | 0.066 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Sodium    | 750    | B         | 56   | 7.4   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Thallium  | <0.56  |           | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Vanadium  | 11     |           | 0.28 | 0.082 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:44 | 1       |
| Zinc      | 46     | B         | 1.1  | 0.34  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:53 | 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 |   | 04/20/15 13:30 | 04/21/15 13:18 | 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 |   | 04/20/15 15:30 | 04/21/15 14:18 | 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 | 11     | J         | 18 | 6.5 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:10 | 1       |

**General Chemistry**

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH      | 8.18   |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:56 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(10-15)-041315**

**Lab Sample ID: 500-94625-12**

**Date Collected: 04/13/15 15:20**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 88.1**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | 5.7    |           | 5.7 | 2.5  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Benzene                    | <5.7   |           | 5.7 | 0.78 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Bromodichloromethane       | <5.7   |           | 5.7 | 0.98 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Bromoform                  | <5.7   |           | 5.7 | 1.3  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Bromomethane               | <5.7   |           | 5.7 | 1.7  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Carbon disulfide           | <5.7   |           | 5.7 | 0.85 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Carbon tetrachloride       | <5.7   |           | 5.7 | 1.0  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Chlorobenzene              | <5.7   |           | 5.7 | 0.58 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Chloroethane               | <5.7   |           | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Chloroform                 | <5.7   |           | 5.7 | 0.65 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Chloromethane              | <5.7   |           | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| cis-1,2-Dichloroethene     | <5.7   |           | 5.7 | 0.80 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| cis-1,3-Dichloropropene    | <5.7   |           | 5.7 | 0.74 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Dibromochloromethane       | <5.7   |           | 5.7 | 0.99 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,1-Dichloroethane         | <5.7   |           | 5.7 | 0.90 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,2-Dichloroethane         | <5.7   |           | 5.7 | 0.84 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,1,1-Dichloroethane       | <5.7   |           | 5.7 | 0.92 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,2-Dichloropropane        | <5.7   |           | 5.7 | 0.86 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,3-Dichloropropene, Total | <5.7   |           | 5.7 | 0.74 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Ethylbenzene               | <5.7   |           | 5.7 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 2-Hexanone                 | <5.7   |           | 5.7 | 1.6  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Methylene Chloride         | <5.7   |           | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Methyl Ethyl Ketone        | <5.7   |           | 5.7 | 2.1  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| methyl isobutyl ketone     | <5.7   |           | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Methyl tert-butyl ether    | <5.7   |           | 5.7 | 0.94 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Styrene                    | <5.7   |           | 5.7 | 0.74 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,1,1,2-Tetrachloroethane  | <5.7   |           | 5.7 | 1.1  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Tetrachloroethene          | <5.7   |           | 5.7 | 0.87 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Toluene                    | <5.7   |           | 5.7 | 0.79 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| trans-1,2-Dichloroethene   | <5.7   |           | 5.7 | 0.78 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| trans-1,3-Dichloropropene  | <5.7   |           | 5.7 | 1.0  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,1,1-Trichloroethane      | <5.7   |           | 5.7 | 0.85 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| 1,1,2-Trichloroethane      | <5.7   |           | 5.7 | 0.77 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Trichloroethene            | <5.7   |           | 5.7 | 0.94 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Vinyl chloride             | <5.7   |           | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |
| Xylenes, Total             | <11    |           | 11  | 0.51 | ug/Kg | ☼ |          | 04/17/15 14:35 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 14:35 | 1       |
| Dibromofluoromethane         | 108       |           | 75 - 120 |          | 04/17/15 14:35 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 70 - 134 |          | 04/17/15 14:35 | 1       |
| Toluene-d8 (Surr)            | 112       |           | 75 - 122 |          | 04/17/15 14:35 | 1       |

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

| Analyte                      | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene       | <180   |           | 180 | 39  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 1,2-Dichlorobenzene          | <180   |           | 180 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 1,3-Dichlorobenzene          | <180   |           | 180 | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 1,4-Dichlorobenzene          | <180   |           | 180 | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2,2'-oxybis[1-chloropropane] | <180   |           | 180 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(10-15)-041315**

**Lab Sample ID: 500-94625-12**

Date Collected: 04/13/15 15:20

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 88.1

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

| Analyte                     | Result    | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | <360      |           | 360 | 83  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2,4,6-Trichlorophenol       | <360      |           | 360 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2,4-Dichlorophenol          | <360      |           | 360 | 87  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2,4-Dimethylphenol          | <360      |           | 360 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2,4-Dinitrophenol           | <740      | *         | 740 | 640 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2,4-Dinitrotoluene          | <180      |           | 180 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2,6-Dinitrotoluene          | <180      |           | 180 | 72  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Chloronaphthalene         | <180      |           | 180 | 40  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Chlorophenol              | <180      |           | 180 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Methylnaphthalene         | <36       |           | 36  | 6.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Methylphenol              | <180      |           | 180 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Nitroaniline              | <180      |           | 180 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Nitrophenol               | <360      |           | 360 | 86  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 3 & 4 Methylphenol          | <180      |           | 180 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 3,3'-Dichlorobenzidine      | <180      |           | 180 | 51  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 3-Nitroaniline              | <360      |           | 360 | 110 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 4,6-Dinitro-2-methylphenol  | <360      |           | 360 | 290 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 4-Bromophenyl phenyl ether  | <180      |           | 180 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 4-Chloro-3-methylphenol     | <360      |           | 360 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 4-Chloroaniline             | <740      |           | 740 | 170 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 4-Chlorophenyl phenyl ether | <180      |           | 180 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 4-Nitroaniline              | <360      |           | 360 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 4-Nitrophenol               | <740      |           | 740 | 350 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Acenaphthene                | <36       |           | 36  | 6.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Acenaphthylene              | <36       |           | 36  | 4.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Anthracene                  | <36       |           | 36  | 6.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Benzo[a]anthracene          | <36       |           | 36  | 4.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Benzo[a]pyrene              | <36       |           | 36  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Benzo[b]fluoranthene        | <36       |           | 36  | 7.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Benzo[g,h,i]perylene        | <36       |           | 36  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Benzo[k]fluoranthene        | <36       |           | 36  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Bis(2-chloroethoxy)methane  | <180      |           | 180 | 37  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Bis(2-chloroethyl)ether     | <180      |           | 180 | 55  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Bis(2-ethylhexyl) phthalate | <180      |           | 180 | 67  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Butyl benzyl phthalate      | <180      |           | 180 | 69  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Carbazole                   | <180      |           | 180 | 94  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Chrysene                    | <36       |           | 36  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Dibenz(a,h)anthracene       | <36       |           | 36  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Dibenzofuran                | <180      |           | 180 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Diethyl phthalate           | <180      |           | 180 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Dimethyl phthalate          | <180      |           | 180 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Di-n-butyl phthalate        | <180      |           | 180 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Di-n-octyl phthalate        | <180      |           | 180 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| <b>Fluoranthene</b>         | <b>15</b> | <b>J</b>  | 36  | 6.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Fluorene                    | <36       |           | 36  | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Hexachlorobenzene           | <74       |           | 74  | 8.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Hexachlorobutadiene         | <180      |           | 180 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Hexachlorocyclopentadiene   | <740      |           | 740 | 210 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Hexachloroethane            | <180      |           | 180 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(10-15)-041315**

**Lab Sample ID: 500-94625-12**

Date Collected: 04/13/15 15:20

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 88.1

**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    | <36       |           | 36       | 9.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Isophorone                | <180      |           | 180      | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Naphthalene               | <36       |           | 36       | 5.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Nitrobenzene              | <36       |           | 36       | 9.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| N-Nitrosodi-n-propylamine | <180      |           | 180      | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| N-Nitrosodiphenylamine    | <180      |           | 180      | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Pentachlorophenol         | <740      |           | 740      | 590 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Phenanthrene              | <36       |           | 36       | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Phenol                    | <180      |           | 180      | 81  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| <b>Pyrene</b>             | <b>40</b> |           | 36       | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Surrogate                 | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol      | 75        |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Fluorobiphenyl          | 58        |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| 2-Fluorophenol            | 60        |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Nitrobenzene-d5           | 53        |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Phenol-d5                 | 53        |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 06:44 | 1       |
| Terphenyl-d14             | 148       | X         | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 06:44 | 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 |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Barium</b>    | <b>0.23</b>   | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| Beryllium        | <0.0040       |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Cadmium</b>   | <b>0.0040</b> | <b>J</b>  | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/22/15 13:26 | 1       |
| Chromium         | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Cobalt</b>    | <b>0.051</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Copper</b>    | <b>0.025</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Iron</b>      | <b>3.6</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Lead</b>      | <b>0.0098</b> |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/22/15 13:26 | 1       |
| <b>Manganese</b> | <b>4.6</b>    |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Nickel</b>    | <b>0.038</b>  | <b>B</b>  | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| Silver           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:47 | 1       |
| <b>Zinc</b>      | <b>0.15</b>   |           | 0.10   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 13:26 | 1       |

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

| Analyte          | Result       | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050       |           | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| <b>Barium</b>    | <b>0.070</b> | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:50 | 1       |
| <b>Chromium</b>  | <b>0.018</b> | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| Cobalt           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| <b>Copper</b>    | <b>0.025</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| <b>Iron</b>      | <b>3.5</b>   |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| Lead             | <0.0075      |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:50 | 1       |
| <b>Manganese</b> | <b>0.064</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| Nickel           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-2(10-15)-041315**

**Lab Sample ID: 500-94625-12**

Date Collected: 04/13/15 15:20

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 05:06 | 1       |
| <b>Zinc</b> | <b>0.060</b> | <b>J</b>  | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:50 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| <b>Antimony</b>  | <b>0.32</b>  | <b>J</b>  | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Arsenic</b>   | <b>3.6</b>   |           | 0.56 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Barium</b>    | <b>10</b>    |           | 0.56 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Beryllium</b> | <b>0.26</b>  |           | 0.22 | 0.049 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Cadmium</b>   | <b>0.094</b> | <b>J</b>  | 0.11 | 0.033 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Calcium</b>   | <b>87000</b> | <b>B</b>  | 110  | 34    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 14:27 | 10      |
| <b>Chromium</b>  | <b>6.5</b>   |           | 0.56 | 0.097 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Cobalt</b>    | <b>4.7</b>   |           | 0.28 | 0.063 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Copper</b>    | <b>12</b>    |           | 0.56 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Iron</b>      | <b>14000</b> |           | 11   | 4.1   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:58 | 1       |
| <b>Lead</b>      | <b>13</b>    |           | 0.28 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Magnesium</b> | <b>42000</b> |           | 5.4  | 2.2   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:58 | 1       |
| <b>Manganese</b> | <b>340</b>   |           | 0.56 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Nickel</b>    | <b>23</b>    |           | 0.54 | 0.15  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:58 | 1       |
| <b>Potassium</b> | <b>730</b>   |           | 28   | 4.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| Selenium         | <0.56        |           | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| Silver           | <0.28        |           | 0.28 | 0.066 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Sodium</b>    | <b>550</b>   | <b>B</b>  | 56   | 7.4   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| Thallium         | <0.56        |           | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Vanadium</b>  | <b>9.1</b>   |           | 0.28 | 0.082 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:49 | 1       |
| <b>Zinc</b>      | <b>45</b>    | <b>B</b>  | 1.1  | 0.34  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:58 | 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 |   | 04/20/15 13:30 | 04/21/15 13:20 | 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 |   | 04/20/15 15:30 | 04/21/15 14:20 | 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>12</b> | <b>J</b>  | 17 | 6.0 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:13 | 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   |   |          | 04/17/15 15:58 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-1(0-5)-041315**

**Lab Sample ID: 500-94625-13**

**Date Collected: 04/13/15 15:25**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 86.5**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <5.8   |           | 5.8 | 2.5  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Benzene                    | <5.8   |           | 5.8 | 0.79 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Bromodichloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Bromoform                  | <5.8   |           | 5.8 | 1.3  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Bromomethane               | <5.8   |           | 5.8 | 1.7  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Carbon disulfide           | <5.8   |           | 5.8 | 0.86 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Carbon tetrachloride       | <5.8   |           | 5.8 | 1.1  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Chlorobenzene              | <5.8   |           | 5.8 | 0.59 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Chloroethane               | <5.8   |           | 5.8 | 1.6  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Chloroform                 | <5.8   |           | 5.8 | 0.66 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Chloromethane              | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| cis-1,2-Dichloroethene     | <5.8   |           | 5.8 | 0.82 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| cis-1,3-Dichloropropene    | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Dibromochloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,1-Dichloroethane         | <5.8   |           | 5.8 | 0.91 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,2-Dichloroethane         | <5.8   |           | 5.8 | 0.86 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,1-Dichloroethene         | <5.8   |           | 5.8 | 0.93 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,2-Dichloropropane        | <5.8   |           | 5.8 | 0.88 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,3-Dichloropropene, Total | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Ethylbenzene               | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 2-Hexanone                 | <5.8   |           | 5.8 | 1.7  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Methylene Chloride         | <5.8   |           | 5.8 | 1.6  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Methyl Ethyl Ketone        | <5.8   |           | 5.8 | 2.1  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| methyl isobutyl ketone     | <5.8   |           | 5.8 | 1.5  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Methyl tert-butyl ether    | <5.8   |           | 5.8 | 0.96 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Styrene                    | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,1,2,2-Tetrachloroethane  | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Tetrachloroethene          | <5.8   |           | 5.8 | 0.88 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Toluene                    | <5.8   |           | 5.8 | 0.81 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| trans-1,2-Dichloroethene   | <5.8   |           | 5.8 | 0.80 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| trans-1,3-Dichloropropene  | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,1,1-Trichloroethane      | <5.8   |           | 5.8 | 0.86 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| 1,1,2-Trichloroethane      | <5.8   |           | 5.8 | 0.79 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Trichloroethene            | <5.8   |           | 5.8 | 0.95 | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Vinyl chloride             | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 14:58 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.52 | ug/Kg | * |          | 04/17/15 14:58 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 14:58 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 |          | 04/17/15 14:58 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 70 - 134 |          | 04/17/15 14:58 | 1       |
| Toluene-d8 (Surr)            | 110       |           | 75 - 122 |          | 04/17/15 14:58 | 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 | * | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 46  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 43  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 49  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 44  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 07:08 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-1(0-5)-041315**

**Lab Sample ID: 500-94625-13**

Date Collected: 04/13/15 15:25

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 86.5

**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 | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2,4,6-Trichlorophenol       | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2,4-Dichlorophenol          | <380        |           | 380 | 91  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2,4-Dimethylphenol          | <380        |           | 380 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2,4-Dinitrophenol           | <770 *      |           | 770 | 680 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2,4-Dinitrotoluene          | <190        |           | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2,6-Dinitrotoluene          | <190        |           | 190 | 75  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Chloronaphthalene         | <190        |           | 190 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Chlorophenol              | <190        |           | 190 | 65  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Methylnaphthalene         | <38         |           | 38  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Methylphenol              | <190        |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Nitroaniline              | <190        |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Nitrophenol               | <380        |           | 380 | 91  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 3 & 4 Methylphenol          | <190        |           | 190 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 3,3'-Dichlorobenzidine      | <190        |           | 190 | 54  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 3-Nitroaniline              | <380        |           | 380 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 4,6-Dinitro-2-methylphenol  | <380        |           | 380 | 310 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 4-Bromophenyl phenyl ether  | <190        |           | 190 | 51  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 4-Chloro-3-methylphenol     | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 4-Chloroaniline             | <770        |           | 770 | 180 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 4-Chlorophenyl phenyl ether | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 4-Nitroaniline              | <380        |           | 380 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 4-Nitrophenol               | <770        |           | 770 | 370 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Acenaphthene</b>         | <b>14 J</b> |           | 38  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Acenaphthylene              | <38         |           | 38  | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Anthracene</b>           | <b>51</b>   |           | 38  | 6.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>380</b>  |           | 38  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>410</b>  |           | 38  | 7.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>590</b>  |           | 38  | 8.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>230</b>  |           | 38  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>230</b>  |           | 38  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Bis(2-chloroethoxy)methane  | <190        |           | 190 | 39  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Bis(2-chloroethyl)ether     | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Bis(2-ethylhexyl) phthalate | <190        |           | 190 | 70  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Butyl benzyl phthalate      | <190        |           | 190 | 73  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Carbazole                   | <190        |           | 190 | 99  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Chrysene</b>             | <b>460</b>  |           | 38  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Dibenz(a,h)anthracene       | <38         |           | 38  | 7.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Dibenzofuran                | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Diethyl phthalate           | <190        |           | 190 | 65  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Dimethyl phthalate          | <190        |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Di-n-butyl phthalate        | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Di-n-octyl phthalate        | <190        |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Fluoranthene</b>         | <b>770</b>  |           | 38  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Fluorene                    | <38         |           | 38  | 5.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Hexachlorobenzene           | <77         |           | 77  | 8.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Hexachlorobutadiene         | <190        |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Hexachlorocyclopentadiene   | <770        |           | 770 | 220 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Hexachloroethane            | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-1(0-5)-041315**

**Lab Sample ID: 500-94625-13**

Date Collected: 04/13/15 15:25

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 86.5

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

| Analyte                       | Result      | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| <b>Indeno[1,2,3-cd]pyrene</b> | <b>290</b>  |           | 38       | 9.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Isophorone                    | <190        |           | 190      | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Naphthalene                   | <38         |           | 38       | 5.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Nitrobenzene                  | <38         |           | 38       | 9.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| N-Nitrosodi-n-propylamine     | <190        |           | 190      | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| N-Nitrosodiphenylamine        | <190        |           | 190      | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Pentachlorophenol             | <770        |           | 770      | 620 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Phenanthrene</b>           | <b>280</b>  |           | 38       | 5.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Phenol                        | <190        |           | 190      | 85  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| <b>Pyrene</b>                 | <b>1100</b> |           | 38       | 7.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Surrogate                     | %Recovery   | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol          | 68          |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Fluorobiphenyl              | 56          |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| 2-Fluorophenol                | 47          |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Nitrobenzene-d5               | 52          |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Phenol-d5                     | 38          |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 07:08 | 1       |
| Terphenyl-d14                 | 124         |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 07:08 | 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 |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| <b>Barium</b>    | <b>0.33</b>   | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| Beryllium        | <0.0040       |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| <b>Cadmium</b>   | <b>0.0046</b> | <b>J</b>   | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:38 | 1       |
| Chromium         | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| Cobalt           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| <b>Copper</b>    | <b>0.010</b>  | <b>J B</b> | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| Iron             | <0.20         |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| Lead             | <0.0075       |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/22/15 14:38 | 1       |
| <b>Manganese</b> | <b>1.2</b>    |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| Nickel           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| Selenium         | <0.050        |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| Silver           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 02:20 | 1       |
| <b>Zinc</b>      | <b>0.16</b>   | <b>B</b>   | 0.10   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 14:38 | 1       |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| <b>Arsenic</b>   | <b>0.038</b>  | <b>J</b>  | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Barium</b>    | <b>0.74</b>   |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Beryllium</b> | <b>0.0063</b> |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Cadmium</b>   | <b>0.0021</b> | <b>J</b>  | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:56 | 1       |
| <b>Chromium</b>  | <b>0.20</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Cobalt</b>    | <b>0.046</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Copper</b>    | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Iron</b>      | <b>180</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Lead</b>      | <b>0.34</b>   |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:56 | 1       |
| <b>Manganese</b> | <b>1.5</b>    |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| <b>Nickel</b>    | <b>0.13</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MS-1(0-5)-041315**

**Lab Sample ID: 500-94625-13**

Date Collected: 04/13/15 15:25

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 05:12 | 1       |
| Zinc    | 1.0    |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:56 | 1       |

**Method: 6010B - Total Metals**

| Analyte   | Result | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony  | <1.1   |           | 1.1  | 0.22  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Arsenic   | 4.7    |           | 0.53 | 0.24  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Barium    | 50     |           | 0.53 | 0.097 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Beryllium | 0.44   |           | 0.21 | 0.046 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Cadmium   | 0.51   |           | 0.11 | 0.031 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Calcium   | 31000  | B         | 11   | 3.6   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:03 | 1       |
| Chromium  | 13     |           | 0.53 | 0.091 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Cobalt    | 7.0    |           | 0.26 | 0.060 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Copper    | 23     |           | 0.53 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Iron      | 18000  |           | 11   | 4.3   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:03 | 1       |
| Lead      | 110    |           | 0.26 | 0.13  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Magnesium | 30000  |           | 5.3  | 2.1   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Manganese | 410    |           | 0.53 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Nickel    | 27     |           | 0.55 | 0.15  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 20:03 | 1       |
| Potassium | 850    |           | 26   | 4.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Selenium  | 0.48   | J         | 0.53 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Silver    | <0.26  |           | 0.26 | 0.062 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Sodium    | 1500   | B         | 53   | 7.0   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Thallium  | <0.53  |           | 0.53 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Vanadium  | 16     |           | 0.26 | 0.077 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 1       |
| Zinc      | 96     | B ^       | 1.1  | 0.33  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:54 | 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 |   | 04/20/15 13:30 | 04/21/15 13:22 | 1       |

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

| Analyte | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | 0.44   |           | 0.20 | 0.20 | ug/L |   | 04/20/15 15:30 | 04/21/15 14:22 | 1       |

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

| Analyte | Result | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 46     |           | 18 | 6.4 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:15 | 1       |

**General Chemistry**

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH      | 8.42   |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 16:00 | 1       |

## Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| X         | Surrogate is outside control limits                                                                            |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                              |

#### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| F2        | MS/MSD RPD exceeds 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. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |

### Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## 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           | 04-30-16        |

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 TESTING

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

Report To (optional)  
Contact: S. Babuskumar  
Company: Weston Solutions, Inc.  
Address: 300 Plaza Circle  
Address: Mundelein IL  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-94625  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 1  
Temperature °C of Cooler: \_\_\_\_\_

| Client                 |        | Client Project #    |      | Preservative |                 | Parameter |      | Matrix          |        | Preservative Key |    |
|------------------------|--------|---------------------|------|--------------|-----------------|-----------|------|-----------------|--------|------------------|----|
| Weston                 |        | IDOT 014            |      |              |                 |           |      |                 |        |                  |    |
| Project Name           |        | Lab Project #       |      | Date         |                 | Time      |      | # of Containers |        | Comments         |    |
| IDOT 014 Wheeling      |        |                     |      | 4/13         |                 | 1505      |      | 2               |        |                  |    |
| Project Location/State |        | Lab PM              |      | Date         |                 | Time      |      | # of Containers |        | Comments         |    |
| Wheeling/IL            |        | wright              |      | 4/13         |                 | 1510      |      | 2               |        |                  |    |
| Sampler                |        | Lab PM              |      | Date         |                 | Time      |      | # of Containers |        | Comments         |    |
| Colomb                 |        | wright              |      | 4/13         |                 | 1515      |      | 2               |        |                  |    |
| Lab ID                 | MS/MSD | Sample ID           | Date | Time         | # of Containers | Matrix    | VOCs | SVOCs           | Metals | Temp/SPUP        | pH |
| 9                      |        | MS-3 (0-5)-041315   | 4/13 | 1505         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 10                     |        | MS-2 (0-5)-041315   | 4/13 | 1510         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 11                     |        | MS-2 (5-10)-041315  | 4/13 | 1515         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 12                     |        | MS-2 (10-15)-041315 | 4/13 | 1526         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 13                     |        | MS-1 (0-5)-041315   | 4/13 | 1525         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 14                     |        | LP-2 (0-5)-041315   | 4/13 | 1535         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |
| 15                     |        | LP-1 (0-5)-041315   | 4/13 | 1540         | 2               | SO        | ↓    | ↓               | ↓      | ↓                | ↓  |

- 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  stacked Other

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

Sample Disposal

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

|                                                                                                   |                                                                                               |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>4/14/15</u> Time: <u>1102</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/14/15</u> Time: <u>1100</u>     |
| Relinquished By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>4/14/15</u> Time: <u>1300</u>     | Received By: <u>[Signature]</u> Company: <u>TA-CHE</u> Date: <u>4/14/15</u> Time: <u>1300</u> |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____                                     | Received By: _____ Company: _____ Date: _____ Time: _____                                     |

Lab Courier: [Signature]  
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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
600 block of W Dundee Road (ISGS Site No. 2646-29)

City: Wheeling 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: 42.139166929 Longitude: -87.930395899  
(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

Name: Illinois Department of Transportation  
Street Address: 201 West Center Court  
PO Box: \_\_\_\_\_  
City: Schaumburg State: IL  
Zip Code: 60196-1096 Phone: 847-705-4101  
Contact: Sam Mead  
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation  
Street Address: 201 West Center Court  
PO Box: \_\_\_\_\_  
City: Schaumburg State: IL  
Zip Code: 60196-1096 Phone: 847-705-4101  
Contact: Sam Mead  
Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd

Latitude: 42.139166929 Longitude: -87.930395899

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 GL-1 AND GL-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2646-29. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL 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 REPORT - JOB ID: 500-94625-1.  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

25 June 2015

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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

**Summary Table of ISGS Site No. 2646-29**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

| Field Sample ID             | GL-1(0-5)-041315      | GL-1(5-10)-041315 | GL-1(10-15)-041315 | GL-2(0-5)-041315 | GL-2(0-5)-041315D | Soil Reference Concentrations <sup>A</sup> |
|-----------------------------|-----------------------|-------------------|--------------------|------------------|-------------------|--------------------------------------------|
| Sample Date                 | 4/13/2015             | 4/13/2015         | 4/13/2015          | 4/13/2015        | 4/13/2015         |                                            |
| Location ID                 | GL-1                  | GL-1              | GL-1               | GL-2             | GL-2              |                                            |
| Depth                       | 0 - 5                 | 5 - 10            | 10 - 15            | 0 - 5            | 0 - 5             |                                            |
| ISGS Site No.               | 2646-29               | 2646-29           | 2646-29            | 2646-29          | 2646-29           |                                            |
| <b>Parameter</b>            |                       |                   |                    |                  |                   |                                            |
| Laboratory pH (s.u.)        | 8.02                  | 8.28              | 8.83               | 8.26             | 8.24              | <6.25,>9.0                                 |
| <b>VOCs (ug/kg)</b>         | <b>No Exceedances</b> |                   |                    |                  |                   |                                            |
| <b>SVOCs (ug/kg)</b>        |                       |                   |                    |                  |                   |                                            |
| Benzo(a)pyrene              | 74                    | ND                | ND                 | 68               | 58                | 90 / 1300 / 2100                           |
| <b>Total Metals (mg/kg)</b> |                       |                   |                    |                  |                   |                                            |
| Antimony, Total             | ND                    | ND                | ND                 | ND               | ND                | 5                                          |
| Arsenic, Total              | 5.2 J                 | 9.6 J             | 4.5 J              | 4.7 J            | 5.8 J             | 11.3 / 13                                  |
| Barium, Total               | 49                    | 96                | 33                 | 74               | 79                | 1500                                       |
| Beryllium, Total            | 0.53                  | 0.51              | 0.48               | 0.55             | 0.67              | 22                                         |
| Cadmium, Total              | 0.24                  | 0.16              | 0.049 J            | 0.2              | 0.18              | 5.2                                        |
| Calcium, Total              | 48000 J               | 65000 J           | 87000 J            | 23000 J          | 13000 J           | ---                                        |
| Chromium, Total             | 9.6                   | 13                | 13                 | 13               | 15                | 21                                         |
| Cobalt, Total               | 6.6                   | 13                | 11                 | 9.1              | 11                | 20                                         |
| Copper, Total               | 16                    | 17                | 17                 | 14               | 18                | 2900                                       |
| Iron, Total                 | 17000 J               | 22000 J           | 15000 J            | 26000 J          | 26000 J           | 15000 / 15900                              |
| Lead, Total                 | 60 J+                 | 14 J+             | 10 J+              | 29 J+            | 27 J+             | 107                                        |
| Magnesium, Total            | 37000 J               | 27000 J           | 34000 J            | 43000 J          | 24000 J           | 325000                                     |
| Manganese, Total            | 430 J-                | 670 J-            | 440 J-             | 580 J            | 480 J             | 630 / 636                                  |
| Mercury, Total              | 0.058 J+              | 0.02 J+           | 0.016 J            | 0.039 J+         | 0.036 J+          | 0.89                                       |
| Nickel, Total               | 21 J                  | 24 J              | 25 J               | 34 J             | 29 J              | 100                                        |
| Potassium, Total            | 660 J+                | 1400 J+           | 1900 J+            | 850 J+           | 1300 J+           | ---                                        |
| Selenium, Total             | ND                    | ND                | ND                 | 0.47 J           | ND                | 1.3                                        |
| Silver, Total               | ND                    | ND                | ND                 | ND               | ND                | 4.4                                        |
| Sodium, Total               | 150 B                 | 200 B             | 440 B              | 210 B            | 190 B             |                                            |
| Thallium, Total             | ND                    | ND                | ND                 | ND               | ND                | 2.6                                        |
| Vanadium, Total             | 18                    | 19                | 15                 | 20               | 23                | 550                                        |
| Zinc, Total                 | 80 J+                 | 51 J+             | 46 J+              | 78 J+            | 73 J+             | 5100                                       |
| <b>TCLP Metals (mg/l)</b>   |                       |                   |                    |                  |                   |                                            |
| Arsenic, TCLP               | ND                    | ND                | ND                 | ND               | ND                | 0.05                                       |
| Barium, TCLP                | 0.37 J                | 0.38 J            | 0.56               | 0.51             | 0.52              | 2                                          |
| Cadmium, TCLP               | 0.0035 J              | ND                | ND                 | ND               | ND                | 0.005                                      |
| Cobalt, TCLP                | ND                    | 0.034             | 0.019 J            | ND               | ND                | 1                                          |
| Copper, TCLP                | ND                    | ND                | ND                 | ND               | ND                | 0.65                                       |
| Iron, TCLP                  | ND                    | 0.25              | ND                 | ND               | ND                | 5                                          |
| Lead, TCLP                  | ND                    | ND                | ND                 | ND               | ND                | 0.0075                                     |
| Manganese, TCLP             | 1.3                   | 4.8               | 2.9                | 0.7              | 0.48              | 0.15                                       |
| Nickel, TCLP                | ND                    | ND                | ND                 | ND               | ND                | 0.1                                        |
| Zinc, TCLP                  | ND                    | ND                | ND                 | ND               | ND                | 5                                          |
| <b>SPLP Metals (mg/l)</b>   |                       |                   |                    |                  |                   |                                            |
| Arsenic, SPLP               | ND                    | ND                | ND                 | ND               | ND                | 0.05                                       |
| Barium, SPLP                | 0.19 J                | 0.11 J            | 0.15 J             | 0.072 J          | 0.1 J             | 2                                          |
| Beryllium, SPLP             | ND                    | ND                | ND                 | ND               | ND                | 0.004                                      |
| Cadmium, SPLP               | 0.0023 J              | 0.0031 J          | ND                 | ND               | ND                | 0.005                                      |
| Chromium, SPLP              | 0.033                 | 0.041             | 0.038              | 0.015 J          | 0.024 J           | 0.1                                        |
| Cobalt, SPLP                | ND                    | ND                | 0.011 J            | ND               | ND                | 1                                          |
| Copper, SPLP                | 0.035                 | 0.039             | 0.036              | 0.015 J          | 0.024 J           | 0.65                                       |
| Iron, SPLP                  | 19                    | 14                | 15                 | 2.7 J            | 8.7 J             | 5                                          |
| Lead, SPLP                  | 0.044                 | 0.012             | 0.012              | ND               | ND                | 0.0075                                     |
| Manganese, SPLP             | 0.2                   | 0.14              | 0.23               | 0.02 J           | 0.053 J           | 0.15                                       |
| Mercury, SPLP               | ND                    | ND                | ND                 | ND               | ND                | 0.002                                      |
| Nickel, SPLP                | 0.017 J               | 0.022 J           | 0.027              | ND               | 0.012 J           | 0.1                                        |
| Zinc, SPLP                  | 0.46                  | 0.11 J            | 0.59               | 0.052 J          | 0.91 J            | 5                                          |

**Notes:**

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

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: 500-94625-1

Client Project/Site: IDOT - Wheeling - WO 014

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

4/23/2015 10:11:06 AM

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?



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 - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(0-5)-041315**

**Lab Sample ID: 500-94625-1**

**Date Collected: 04/13/15 14:05**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 88.1**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <5.7   |           | 5.7 | 2.5  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Benzene                    | <5.7   | F1        | 5.7 | 0.78 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Bromodichloromethane       | <5.7   | F1        | 5.7 | 0.98 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Bromoform                  | <5.7   | F1        | 5.7 | 1.3  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Bromomethane               | <5.7   |           | 5.7 | 1.7  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Carbon disulfide           | <5.7   | F1        | 5.7 | 0.85 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Carbon tetrachloride       | <5.7   | F1        | 5.7 | 1.0  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Chlorobenzene              | <5.7   | F1        | 5.7 | 0.58 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Chloroethane               | <5.7   | F1        | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Chloroform                 | <5.7   | F1        | 5.7 | 0.65 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Chloromethane              | <5.7   |           | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| cis-1,2-Dichloroethene     | <5.7   | F1        | 5.7 | 0.80 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| cis-1,3-Dichloropropene    | <5.7   | F1        | 5.7 | 0.74 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Dibromochloromethane       | <5.7   | F1        | 5.7 | 0.99 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,1-Dichloroethane         | <5.7   | F1        | 5.7 | 0.90 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,2-Dichloroethane         | <5.7   | F1        | 5.7 | 0.84 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,1-Dichloroethene         | <5.7   | F1        | 5.7 | 0.92 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,2-Dichloropropane        | <5.7   | F1        | 5.7 | 0.86 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,3-Dichloropropene, Total | <5.7   |           | 5.7 | 0.74 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Ethylbenzene               | <5.7   | F1        | 5.7 | 1.1  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 2-Hexanone                 | <5.7   |           | 5.7 | 1.6  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Methylene Chloride         | <5.7   | F1        | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Methyl Ethyl Ketone        | <5.7   |           | 5.7 | 2.1  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| methyl isobutyl ketone     | <5.7   |           | 5.7 | 1.5  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Methyl tert-butyl ether    | <5.7   | F1        | 5.7 | 0.94 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Styrene                    | <5.7   | F1        | 5.7 | 0.74 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,1,1,2-Tetrachloroethane  | <5.7   | F1        | 5.7 | 1.1  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Tetrachloroethene          | <5.7   | F1        | 5.7 | 0.87 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Toluene                    | <5.7   | F1        | 5.7 | 0.79 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| trans-1,2-Dichloroethene   | <5.7   | F1        | 5.7 | 0.78 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| trans-1,3-Dichloropropene  | <5.7   | F1        | 5.7 | 1.0  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,1,1-Trichloroethane      | <5.7   | F1        | 5.7 | 0.85 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| 1,1,2-Trichloroethane      | <5.7   | F1        | 5.7 | 0.77 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Trichloroethene            | <5.7   | F1        | 5.7 | 0.94 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Vinyl chloride             | <5.7   | F1        | 5.7 | 1.2  | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |
| Xylenes, Total             | <11    | F1        | 11  | 0.51 | ug/Kg | ☼ |          | 04/16/15 16:51 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 101       |           | 70 - 122 |          | 04/16/15 16:51 | 1       |
| Dibromofluoromethane         | 108       |           | 75 - 120 |          | 04/16/15 16:51 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 70 - 134 |          | 04/16/15 16:51 | 1       |
| Toluene-d8 (Surr)            | 108       |           | 75 - 122 |          | 04/16/15 16:51 | 1       |

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

| Analyte                      | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene       | <180   |           | 180 | 39  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 1,2-Dichlorobenzene          | <180   |           | 180 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 1,3-Dichlorobenzene          | <180   |           | 180 | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 1,4-Dichlorobenzene          | <180   |           | 180 | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2,2'-oxybis[1-chloropropane] | <180   |           | 180 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(0-5)-041315**

**Lab Sample ID: 500-94625-1**

**Date Collected: 04/13/15 14:05**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 88.1**

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

| Analyte                     | Result     | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | <360       |           | 360 | 83  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2,4,6-Trichlorophenol       | <360       |           | 360 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2,4-Dichlorophenol          | <360       |           | 360 | 86  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2,4-Dimethylphenol          | <360       |           | 360 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2,4-Dinitrophenol           | <730       | *         | 730 | 640 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2,4-Dinitrotoluene          | <180       |           | 180 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2,6-Dinitrotoluene          | <180       |           | 180 | 71  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Chloronaphthalene         | <180       |           | 180 | 40  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Chlorophenol              | <180       |           | 180 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Methylnaphthalene         | <36        |           | 36  | 6.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Methylphenol              | <180       |           | 180 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Nitroaniline              | <180       |           | 180 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Nitrophenol               | <360       |           | 360 | 86  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 3 & 4 Methylphenol          | <180       |           | 180 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 3,3'-Dichlorobenzidine      | <180       |           | 180 | 51  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 3-Nitroaniline              | <360       |           | 360 | 110 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 4,6-Dinitro-2-methylphenol  | <360       |           | 360 | 290 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 4-Bromophenyl phenyl ether  | <180       |           | 180 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 4-Chloro-3-methylphenol     | <360       |           | 360 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 4-Chloroaniline             | <730       |           | 730 | 170 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 4-Chlorophenyl phenyl ether | <180       |           | 180 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 4-Nitroaniline              | <360       |           | 360 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 4-Nitrophenol               | <730       |           | 730 | 340 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Acenaphthene                | <36        |           | 36  | 6.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Acenaphthylene              | <36        |           | 36  | 4.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Anthracene                  | <36        |           | 36  | 6.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>69</b>  |           | 36  | 4.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>74</b>  |           | 36  | 7.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>120</b> |           | 36  | 7.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>54</b>  |           | 36  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>39</b>  |           | 36  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Bis(2-chloroethoxy)methane  | <180       |           | 180 | 37  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Bis(2-chloroethyl)ether     | <180       |           | 180 | 54  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Bis(2-ethylhexyl) phthalate | <180       |           | 180 | 66  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Butyl benzyl phthalate      | <180       |           | 180 | 69  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Carbazole                   | <180       |           | 180 | 94  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Chrysene</b>             | <b>81</b>  |           | 36  | 9.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Dibenz(a,h)anthracene       | <36        |           | 36  | 7.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Dibenzofuran                | <180       |           | 180 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Diethyl phthalate           | <180       |           | 180 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Dimethyl phthalate          | <180       |           | 180 | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Di-n-butyl phthalate        | <180       |           | 180 | 55  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Di-n-octyl phthalate        | <180       |           | 180 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Fluoranthene</b>         | <b>92</b>  |           | 36  | 6.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Fluorene                    | <36        |           | 36  | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Hexachlorobenzene           | <73        |           | 73  | 8.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Hexachlorobutadiene         | <180       |           | 180 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Hexachlorocyclopentadiene   | <730       |           | 730 | 210 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Hexachloroethane            | <180       |           | 180 | 55  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(0-5)-041315**

**Lab Sample ID: 500-94625-1**

**Date Collected: 04/13/15 14:05**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 88.1**

**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>74</b>  |           | 36       | 9.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Isophorone                    | <180       |           | 180      | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Naphthalene                   | <36        |           | 36       | 5.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Nitrobenzene                  | <36        |           | 36       | 9.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| N-Nitrosodi-n-propylamine     | <180       |           | 180      | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| N-Nitrosodiphenylamine        | <180       |           | 180      | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Pentachlorophenol             | <730       |           | 730      | 580 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Phenanthrene</b>           | <b>58</b>  |           | 36       | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Phenol                        | <180       |           | 180      | 81  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| <b>Pyrene</b>                 | <b>150</b> |           | 36       | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Surrogate                     | %Recovery  | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol          | 80         |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Fluorobiphenyl              | 71         |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| 2-Fluorophenol                | 62         |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Nitrobenzene-d5               | 64         |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Phenol-d5                     | 50         |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 02:49 | 1       |
| Terphenyl-d14                 | 145        | X         | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 02:49 | 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 |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| <b>Barium</b>    | <b>0.37</b>   | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Beryllium        | <0.0040       |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| <b>Cadmium</b>   | <b>0.0035</b> | <b>J</b>   | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/22/15 13:42 | 1       |
| Chromium         | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Cobalt           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Copper           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Iron             | <0.20         |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Lead             | <0.0075       |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/22/15 13:42 | 1       |
| <b>Manganese</b> | <b>1.3</b>    |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Nickel           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Selenium         | <0.050        |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| Silver           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:06 | 1       |
| <b>Zinc</b>      | <b>0.063</b>  | <b>J B</b> | 0.10   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/22/15 13:42 | 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 |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| <b>Barium</b>    | <b>0.19</b>   | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| Beryllium        | <0.0040       |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| <b>Cadmium</b>   | <b>0.0023</b> | <b>J</b>  | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:27 | 1       |
| <b>Chromium</b>  | <b>0.033</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| Cobalt           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| <b>Copper</b>    | <b>0.035</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| <b>Iron</b>      | <b>19</b>     |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| <b>Lead</b>      | <b>0.044</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:27 | 1       |
| <b>Manganese</b> | <b>0.20</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| <b>Nickel</b>    | <b>0.017</b>  | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(0-5)-041315**

**Lab Sample ID: 500-94625-1**

Date Collected: 04/13/15 14:05

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 03:42 | 1       |
| <b>Zinc</b> | <b>0.46</b> |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:27 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier   | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-------------|------|-------|-------|---|----------------|----------------|---------|
| <b>Antimony</b>  | <b>0.23</b>  | <b>J F1</b> | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Arsenic</b>   | <b>5.2</b>   |             | 0.55 | 0.25  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Barium</b>    | <b>49</b>    |             | 0.55 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Beryllium</b> | <b>0.53</b>  |             | 0.22 | 0.047 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Cadmium</b>   | <b>0.24</b>  |             | 0.11 | 0.032 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Calcium</b>   | <b>48000</b> | <b>B F2</b> | 110  | 35    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 13:39 | 10      |
| <b>Chromium</b>  | <b>9.6</b>   |             | 0.55 | 0.094 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Cobalt</b>    | <b>6.6</b>   |             | 0.27 | 0.062 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Copper</b>    | <b>16</b>    |             | 0.55 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Iron</b>      | <b>17000</b> | <b>F2</b>   | 11   | 4.2   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 18:31 | 1       |
| <b>Lead</b>      | <b>60</b>    |             | 0.27 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Magnesium</b> | <b>37000</b> |             | 5.5  | 2.2   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Manganese</b> | <b>430</b>   |             | 0.55 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Nickel</b>    | <b>21</b>    |             | 0.54 | 0.15  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 18:31 | 1       |
| <b>Potassium</b> | <b>660</b>   | <b>F1</b>   | 27   | 4.4   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| Selenium         | <0.55        |             | 0.55 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| Silver           | <0.27        |             | 0.27 | 0.064 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Sodium</b>    | <b>150</b>   | <b>B</b>    | 55   | 7.2   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| Thallium         | <0.55        |             | 0.55 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Vanadium</b>  | <b>18</b>    |             | 0.27 | 0.080 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:21 | 1       |
| <b>Zinc</b>      | <b>80</b>    | <b>B F1</b> | 1.1  | 0.34  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 18:31 | 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 |   | 04/20/15 13:30 | 04/21/15 12:51 | 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 |   | 04/20/15 15:30 | 04/21/15 13:46 | 1       |

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

| Analyte        | Result    | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| <b>Mercury</b> | <b>58</b> | <b>F1</b> | 19 | 6.6 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 11:38 | 1       |

**General Chemistry**

| Analyte   | Result      | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| <b>pH</b> | <b>8.02</b> |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:37 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(5-10)-041315**

**Lab Sample ID: 500-94625-2**

**Date Collected: 04/13/15 14:10**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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 | * |          | 04/16/15 18:03 | 1       |
| Benzene                    | <5.8   |           | 5.8 | 0.80 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Bromodichloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Bromoform                  | <5.8   |           | 5.8 | 1.3  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Bromomethane               | <5.8   |           | 5.8 | 1.8  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Carbon disulfide           | <5.8   |           | 5.8 | 0.87 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Carbon tetrachloride       | <5.8   |           | 5.8 | 1.1  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Chlorobenzene              | <5.8   |           | 5.8 | 0.59 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Chloroethane               | <5.8   |           | 5.8 | 1.6  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Chloroform                 | <5.8   |           | 5.8 | 0.67 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Chloromethane              | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| cis-1,2-Dichloroethene     | <5.8   |           | 5.8 | 0.82 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| cis-1,3-Dichloropropene    | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Dibromochloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,1-Dichloroethane         | <5.8   |           | 5.8 | 0.92 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,2-Dichloroethane         | <5.8   |           | 5.8 | 0.86 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,1-Dichloroethene         | <5.8   |           | 5.8 | 0.94 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,2-Dichloropropane        | <5.8   |           | 5.8 | 0.88 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,3-Dichloropropene, Total | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Ethylbenzene               | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 2-Hexanone                 | <5.8   |           | 5.8 | 1.7  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Methylene Chloride         | <5.8   |           | 5.8 | 1.6  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Methyl Ethyl Ketone        | <5.8   |           | 5.8 | 2.1  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| methyl isobutyl ketone     | <5.8   |           | 5.8 | 1.5  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Methyl tert-butyl ether    | <5.8   |           | 5.8 | 0.96 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Styrene                    | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,1,1,2-Tetrachloroethane  | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Tetrachloroethene          | <5.8   |           | 5.8 | 0.89 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Toluene                    | <5.8   |           | 5.8 | 0.81 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| trans-1,2-Dichloroethene   | <5.8   |           | 5.8 | 0.80 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| trans-1,3-Dichloropropene  | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,1,1-Trichloroethane      | <5.8   |           | 5.8 | 0.87 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| 1,1,2-Trichloroethane      | <5.8   |           | 5.8 | 0.79 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Trichloroethene            | <5.8   |           | 5.8 | 0.96 | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Vinyl chloride             | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/16/15 18:03 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.53 | ug/Kg | * |          | 04/16/15 18:03 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 90        |           | 70 - 122 |          | 04/16/15 18:03 | 1       |
| Dibromofluoromethane         | 107       |           | 75 - 120 |          | 04/16/15 18:03 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 70 - 134 |          | 04/16/15 18:03 | 1       |
| Toluene-d8 (Surr)            | 115       |           | 75 - 122 |          | 04/16/15 18:03 | 1       |

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

| Analyte                      | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene       | <190   | F1        | 190 | 40  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 1,2-Dichlorobenzene          | <190   | F1        | 190 | 45  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 1,3-Dichlorobenzene          | <190   | F1        | 190 | 42  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 1,4-Dichlorobenzene          | <190   | F1        | 190 | 48  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 43  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 08:18 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(5-10)-041315**

**Lab Sample ID: 500-94625-2**

**Date Collected: 04/13/15 14:10**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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 | 85  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2,4,6-Trichlorophenol       | <370   |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2,4-Dichlorophenol          | <370   | F1        | 370 | 89  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2,4-Dimethylphenol          | <370   | F1        | 370 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2,4-Dinitrophenol           | <760   | F1 *      | 760 | 660 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2,4-Dinitrotoluene          | <190   |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2,6-Dinitrotoluene          | <190   |           | 190 | 74  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Chloronaphthalene         | <190   |           | 190 | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Chlorophenol              | <190   | F1        | 190 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Methylnaphthalene         | <37    | F1        | 37  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Methylphenol              | <190   |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Nitroaniline              | <190   |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Nitrophenol               | <370   | F1        | 370 | 89  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 3 & 4 Methylphenol          | <190   |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 3,3'-Dichlorobenzidine      | <190   |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 3-Nitroaniline              | <370   |           | 370 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 4,6-Dinitro-2-methylphenol  | <370   |           | 370 | 300 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 4-Bromophenyl phenyl ether  | <190   | F1        | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 4-Chloro-3-methylphenol     | <370   | F1        | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 4-Chloroaniline             | <760   |           | 760 | 180 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 4-Chlorophenyl phenyl ether | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 4-Nitroaniline              | <370   |           | 370 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 4-Nitrophenol               | <760   |           | 760 | 360 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Acenaphthene                | <37    |           | 37  | 6.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Acenaphthylene              | <37    |           | 37  | 4.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Anthracene                  | <37    | F1        | 37  | 6.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Benzo[a]anthracene          | <37    |           | 37  | 5.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Benzo[a]pyrene              | <37    |           | 37  | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Benzo[b]fluoranthene        | <37    |           | 37  | 8.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Benzo[g,h,i]perylene        | <37    | F2 F1     | 37  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Benzo[k]fluoranthene        | <37    |           | 37  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Bis(2-chloroethoxy)methane  | <190   | F1        | 190 | 38  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Bis(2-chloroethyl)ether     | <190   | F1        | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Bis(2-ethylhexyl) phthalate | <190   |           | 190 | 68  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Butyl benzyl phthalate      | <190   |           | 190 | 71  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Carbazole                   | <190   | F1        | 190 | 97  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Chrysene                    | <37    |           | 37  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Dibenz(a,h)anthracene       | <37    |           | 37  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Dibenzofuran                | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Diethyl phthalate           | <190   |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Dimethyl phthalate          | <190   |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Di-n-butyl phthalate        | <190   | F1        | 190 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Di-n-octyl phthalate        | <190   | F1        | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Fluoranthene                | <37    | F1        | 37  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Fluorene                    | <37    |           | 37  | 5.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Hexachlorobenzene           | <76    |           | 76  | 8.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Hexachlorobutadiene         | <190   | F1        | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Hexachlorocyclopentadiene   | <760   | F1        | 760 | 220 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Hexachloroethane            | <190   | F1        | 190 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(5-10)-041315**

**Lab Sample ID: 500-94625-2**

**Date Collected: 04/13/15 14:10**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 86.1**

**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       | F1        | 37       | 9.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Isophorone                | <190      | F1        | 190      | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Naphthalene               | <37       | F1        | 37       | 5.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Nitrobenzene              | <37       | F1        | 37       | 9.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| N-Nitrosodi-n-propylamine | <190      | F1        | 190      | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| N-Nitrosodiphenylamine    | <190      |           | 190      | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Pentachlorophenol         | <760      |           | 760      | 600 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Phenanthrene              | <37       | F1        | 37       | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Phenol                    | <190      | F1        | 190      | 83  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Pyrene                    | <37       |           | 37       | 7.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Surrogate                 | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol      | 38        |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Fluorobiphenyl          | 33        |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| 2-Fluorophenol            | 36        |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Nitrobenzene-d5           | 38        |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Phenol-d5                 | 29        | X         | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 08:18 | 1       |
| Terphenyl-d14             | 83        |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 08:18 | 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 |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| <b>Barium</b>    | <b>0.38</b>  | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| Beryllium        | <0.0040      |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| Cadmium          | <0.0050      |            | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 16:11 | 1       |
| Chromium         | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| <b>Cobalt</b>    | <b>0.034</b> |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| Copper           | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| <b>Iron</b>      | <b>0.25</b>  |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| Lead             | <0.0075      |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 16:11 | 1       |
| <b>Manganese</b> | <b>4.8</b>   |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| <b>Nickel</b>    | <b>0.034</b> | <b>B</b>   | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| Selenium         | <0.050       |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| Silver           | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:34 | 1       |
| <b>Zinc</b>      | <b>0.024</b> | <b>J B</b> | 0.20   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 16:11 | 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 |   | 04/21/15 08:35 | 04/21/15 03:48 | 1       |
| <b>Barium</b>    | <b>0.11</b>   | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| Beryllium        | <0.0040       |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| <b>Cadmium</b>   | <b>0.0031</b> | <b>J</b>  | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:33 | 1       |
| <b>Chromium</b>  | <b>0.041</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| Cobalt           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| <b>Copper</b>    | <b>0.039</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| <b>Iron</b>      | <b>14</b>     |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| <b>Lead</b>      | <b>0.012</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:33 | 1       |
| <b>Manganese</b> | <b>0.14</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| <b>Nickel</b>    | <b>0.022</b>  | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(5-10)-041315**

**Lab Sample ID: 500-94625-2**

Date Collected: 04/13/15 14:10

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 03:48 | 1       |
| Zinc    | 0.11   | J         | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:33 | 1       |

**Method: 6010B - Total Metals**

| Analyte   | Result | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony  | <1.1   |           | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Arsenic   | 9.6    |           | 0.56 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Barium    | 96     |           | 0.56 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Beryllium | 0.51   |           | 0.22 | 0.049 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Cadmium   | 0.16   |           | 0.11 | 0.033 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Calcium   | 65000  | B         | 110  | 36    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 13:59 | 10      |
| Chromium  | 13     |           | 0.56 | 0.097 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Cobalt    | 13     |           | 0.28 | 0.063 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Copper    | 17     |           | 0.56 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Iron      | 22000  |           | 11   | 4.3   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:02 | 1       |
| Lead      | 14     |           | 0.28 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Magnesium | 27000  |           | 5.6  | 2.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Manganese | 670    |           | 0.56 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Nickel    | 24     |           | 0.56 | 0.15  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:02 | 1       |
| Potassium | 1400   |           | 28   | 4.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Selenium  | <0.56  |           | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Silver    | <0.28  |           | 0.28 | 0.066 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Sodium    | 200    | B         | 56   | 7.4   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Thallium  | <0.56  |           | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Vanadium  | 19     |           | 0.28 | 0.082 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:52 | 1       |
| Zinc      | 51     | B         | 1.1  | 0.36  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:02 | 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 |   | 04/20/15 13:30 | 04/21/15 12:53 | 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 |   | 04/20/15 15:30 | 04/21/15 13:52 | 1       |

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

| Analyte | Result | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 20     |           | 17 | 5.8 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 11:47 | 1       |

**General Chemistry**

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH      | 8.28   |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:39 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(10-15)-041315**

**Lab Sample ID: 500-94625-3**

**Date Collected: 04/13/15 14:15**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 86.3**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | 7.5    |           | 5.8 | 2.5  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Benzene                    | <5.8   |           | 5.8 | 0.79 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Bromodichloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Bromoform                  | <5.8   |           | 5.8 | 1.3  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Bromomethane               | <5.8   |           | 5.8 | 1.8  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Carbon disulfide           | <5.8   |           | 5.8 | 0.87 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Carbon tetrachloride       | <5.8   |           | 5.8 | 1.1  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Chlorobenzene              | <5.8   |           | 5.8 | 0.59 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Chloroethane               | <5.8   |           | 5.8 | 1.6  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Chloroform                 | <5.8   |           | 5.8 | 0.67 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Chloromethane              | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| cis-1,2-Dichloroethene     | <5.8   |           | 5.8 | 0.82 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| cis-1,3-Dichloropropene    | <5.8   |           | 5.8 | 0.76 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Dibromochloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,1-Dichloroethane         | <5.8   |           | 5.8 | 0.92 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,2-Dichloroethane         | <5.8   |           | 5.8 | 0.86 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,1-Dichloroethene         | <5.8   |           | 5.8 | 0.94 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,2-Dichloropropane        | <5.8   |           | 5.8 | 0.88 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,3-Dichloropropene, Total | <5.8   |           | 5.8 | 0.76 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Ethylbenzene               | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 2-Hexanone                 | <5.8   |           | 5.8 | 1.7  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Methylene Chloride         | <5.8   |           | 5.8 | 1.6  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Methyl Ethyl Ketone        | <5.8   |           | 5.8 | 2.1  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| methyl isobutyl ketone     | <5.8   |           | 5.8 | 1.5  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Methyl tert-butyl ether    | <5.8   |           | 5.8 | 0.96 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Styrene                    | <5.8   |           | 5.8 | 0.76 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,1,1,2-Tetrachloroethane  | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Tetrachloroethene          | <5.8   |           | 5.8 | 0.89 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Toluene                    | <5.8   |           | 5.8 | 0.81 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| trans-1,2-Dichloroethene   | <5.8   |           | 5.8 | 0.80 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| trans-1,3-Dichloropropene  | <5.8   |           | 5.8 | 1.0  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,1,1-Trichloroethane      | <5.8   |           | 5.8 | 0.87 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| 1,1,2-Trichloroethane      | <5.8   |           | 5.8 | 0.79 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Trichloroethene            | <5.8   |           | 5.8 | 0.96 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Vinyl chloride             | <5.8   |           | 5.8 | 1.2  | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.53 | ug/Kg | ☼ |          | 04/16/15 18:27 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 94        |           | 70 - 122 |          | 04/16/15 18:27 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 |          | 04/16/15 18:27 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 70 - 134 |          | 04/16/15 18:27 | 1       |
| Toluene-d8 (Surr)            | 113       |           | 75 - 122 |          | 04/16/15 18:27 | 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 | 40  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(10-15)-041315**

**Lab Sample ID: 500-94625-3**

**Date Collected: 04/13/15 14:15**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 86.3**

**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 | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2,4,6-Trichlorophenol       | <370   |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2,4-Dichlorophenol          | <370   |           | 370 | 89  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2,4-Dimethylphenol          | <370   |           | 370 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2,4-Dinitrophenol           | <750 * |           | 750 | 660 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2,4-Dinitrotoluene          | <190   |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2,6-Dinitrotoluene          | <190   |           | 190 | 73  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Chloronaphthalene         | <190   |           | 190 | 41  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Chlorophenol              | <190   |           | 190 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Methylnaphthalene         | <37    |           | 37  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Methylphenol              | <190   |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Nitroaniline              | <190   |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Nitrophenol               | <370   |           | 370 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 3 & 4 Methylphenol          | <190   |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 3,3'-Dichlorobenzidine      | <190   |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 3-Nitroaniline              | <370   |           | 370 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 4,6-Dinitro-2-methylphenol  | <370   |           | 370 | 300 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 4-Bromophenyl phenyl ether  | <190   |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 4-Chloro-3-methylphenol     | <370   |           | 370 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 4-Chloroaniline             | <750   |           | 750 | 180 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 4-Chlorophenyl phenyl ether | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 4-Nitroaniline              | <370   |           | 370 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 4-Nitrophenol               | <750   |           | 750 | 360 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Acenaphthene                | <37    |           | 37  | 6.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Acenaphthylene              | <37    |           | 37  | 4.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Anthracene                  | <37    |           | 37  | 6.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Benzo[a]anthracene          | <37    |           | 37  | 5.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Benzo[a]pyrene              | <37    |           | 37  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Benzo[b]fluoranthene        | <37    |           | 37  | 8.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Benzo[g,h,i]perylene        | <37    |           | 37  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Benzo[k]fluoranthene        | <37    |           | 37  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Bis(2-chloroethoxy)methane  | <190   |           | 190 | 38  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Bis(2-chloroethyl)ether     | <190   |           | 190 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Bis(2-ethylhexyl) phthalate | <190   |           | 190 | 68  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Butyl benzyl phthalate      | <190   |           | 190 | 71  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Carbazole                   | <190   |           | 190 | 96  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Chrysene                    | <37    |           | 37  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Dibenz(a,h)anthracene       | <37    |           | 37  | 7.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Dibenzofuran                | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Diethyl phthalate           | <190   |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Dimethyl phthalate          | <190   |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Di-n-butyl phthalate        | <190   |           | 190 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Di-n-octyl phthalate        | <190   |           | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Fluoranthene                | <37    |           | 37  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Fluorene                    | <37    |           | 37  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Hexachlorobenzene           | <75    |           | 75  | 8.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Hexachlorobutadiene         | <190   |           | 190 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Hexachlorocyclopentadiene   | <750   |           | 750 | 210 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Hexachloroethane            | <190   |           | 190 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(10-15)-041315**

**Lab Sample ID: 500-94625-3**

**Date Collected: 04/13/15 14:15**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 86.3**

**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 | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Isophorone                | <190      |           | 190      | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Naphthalene               | <37       |           | 37       | 5.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Nitrobenzene              | <37       |           | 37       | 9.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| N-Nitrosodi-n-propylamine | <190      |           | 190      | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| N-Nitrosodiphenylamine    | <190      |           | 190      | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Pentachlorophenol         | <750      |           | 750      | 600 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Phenanthrene              | <37       |           | 37       | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Phenol                    | <190      |           | 190      | 83  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Pyrene                    | <37       |           | 37       | 7.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Surrogate                 | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol      | 48        |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Fluorobiphenyl          | 42        |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| 2-Fluorophenol            | 48        |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Nitrobenzene-d5           | 42        |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Phenol-d5                 | 37        |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 03:13 | 1       |
| Terphenyl-d14             | 95        |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 03:13 | 1       |

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

| Analyte          | Result       | Qualifier  | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050       |            | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| <b>Barium</b>    | <b>0.56</b>  |            | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| Beryllium        | <0.0040      |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| Cadmium          | <0.0050      |            | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 17:22 | 1       |
| Chromium         | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| <b>Cobalt</b>    | <b>0.019</b> | <b>J</b>   | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| <b>Copper</b>    | <b>0.015</b> | <b>J B</b> | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| Iron             | <0.20        |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| Lead             | <0.0075      |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 17:22 | 1       |
| <b>Manganese</b> | <b>2.9</b>   |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| <b>Nickel</b>    | <b>0.034</b> |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| Selenium         | <0.050       |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| Silver           | <0.025       |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:45 | 1       |
| <b>Zinc</b>      | <b>0.083</b> | <b>J B</b> | 0.20   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 17:22 | 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 |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| <b>Barium</b>    | <b>0.15</b>  | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:39 | 1       |
| <b>Chromium</b>  | <b>0.038</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| <b>Cobalt</b>    | <b>0.011</b> | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| <b>Copper</b>    | <b>0.036</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| <b>Iron</b>      | <b>15</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| <b>Lead</b>      | <b>0.012</b> |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:39 | 1       |
| <b>Manganese</b> | <b>0.23</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| <b>Nickel</b>    | <b>0.027</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-1(10-15)-041315**

**Lab Sample ID: 500-94625-3**

Date Collected: 04/13/15 14:15

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 03:54 | 1       |
| <b>Zinc</b> | <b>0.59</b> |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:39 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.1         |           | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Arsenic</b>   | <b>4.5</b>   |           | 0.57 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Barium</b>    | <b>33</b>    |           | 0.57 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Beryllium</b> | <b>0.48</b>  |           | 0.23 | 0.049 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Cadmium</b>   | <b>0.049</b> | <b>J</b>  | 0.11 | 0.033 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Calcium</b>   | <b>87000</b> | <b>B</b>  | 110  | 34    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 14:11 | 10      |
| <b>Chromium</b>  | <b>13</b>    |           | 0.57 | 0.097 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Cobalt</b>    | <b>11</b>    |           | 0.28 | 0.064 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Copper</b>    | <b>17</b>    |           | 0.57 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Iron</b>      | <b>15000</b> |           | 11   | 4.1   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:07 | 1       |
| <b>Lead</b>      | <b>10</b>    |           | 0.28 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Magnesium</b> | <b>34000</b> |           | 5.7  | 2.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Manganese</b> | <b>440</b>   |           | 0.57 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Nickel</b>    | <b>25</b>    |           | 0.53 | 0.14  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:07 | 1       |
| <b>Potassium</b> | <b>1900</b>  |           | 28   | 4.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| Selenium         | <0.57        |           | 0.57 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| Silver           | <0.28        |           | 0.28 | 0.066 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Sodium</b>    | <b>440</b>   | <b>B</b>  | 57   | 7.5   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| Thallium         | <0.57        |           | 0.57 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Vanadium</b>  | <b>15</b>    |           | 0.28 | 0.083 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 02:57 | 1       |
| <b>Zinc</b>      | <b>46</b>    | <b>B</b>  | 1.1  | 0.34  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:07 | 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 |   | 04/20/15 13:30 | 04/21/15 12:55 | 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 |   | 04/20/15 15:30 | 04/21/15 13:54 | 1       |

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

| Analyte        | Result    | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| <b>Mercury</b> | <b>16</b> | <b>J</b>  | 17 | 5.8 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 11:49 | 1       |

**General Chemistry**

| Analyte   | Result      | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| <b>pH</b> | <b>8.83</b> |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:41 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315**

**Lab Sample ID: 500-94625-4**

Date Collected: 04/13/15 14:20

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 84.0

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <6.0   |           | 6.0 | 2.6  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Benzene                    | <6.0   |           | 6.0 | 0.82 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Bromodichloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Bromoform                  | <6.0   |           | 6.0 | 1.4  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Bromomethane               | <6.0   |           | 6.0 | 1.8  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Carbon disulfide           | <6.0   |           | 6.0 | 0.89 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Carbon tetrachloride       | <6.0   |           | 6.0 | 1.1  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Chlorobenzene              | <6.0   |           | 6.0 | 0.60 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Chloroethane               | <6.0   |           | 6.0 | 1.6  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Chloroform                 | <6.0   |           | 6.0 | 0.68 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Chloromethane              | <6.0   |           | 6.0 | 1.3  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| cis-1,2-Dichloroethene     | <6.0   |           | 6.0 | 0.84 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| cis-1,3-Dichloropropene    | <6.0   |           | 6.0 | 0.78 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Dibromochloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,1-Dichloroethane         | <6.0   |           | 6.0 | 0.94 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,2-Dichloroethane         | <6.0   |           | 6.0 | 0.88 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,1-Dichloroethene         | <6.0   |           | 6.0 | 0.96 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,2-Dichloropropane        | <6.0   |           | 6.0 | 0.90 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,3-Dichloropropene, Total | <6.0   |           | 6.0 | 0.78 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Ethylbenzene               | <6.0   |           | 6.0 | 1.2  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 2-Hexanone                 | <6.0   |           | 6.0 | 1.7  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Methylene Chloride         | <6.0   |           | 6.0 | 1.6  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Methyl Ethyl Ketone        | <6.0   |           | 6.0 | 2.2  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| methyl isobutyl ketone     | <6.0   |           | 6.0 | 1.6  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Methyl tert-butyl ether    | <6.0   |           | 6.0 | 0.98 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Styrene                    | <6.0   |           | 6.0 | 0.78 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,1,1,2-Tetrachloroethane  | <6.0   |           | 6.0 | 1.2  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Tetrachloroethene          | <6.0   |           | 6.0 | 0.91 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Toluene                    | <6.0   |           | 6.0 | 0.83 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| trans-1,2-Dichloroethene   | <6.0   |           | 6.0 | 0.82 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| trans-1,3-Dichloropropene  | <6.0   |           | 6.0 | 1.1  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,1,1-Trichloroethane      | <6.0   |           | 6.0 | 0.89 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| 1,1,2-Trichloroethane      | <6.0   |           | 6.0 | 0.81 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Trichloroethene            | <6.0   |           | 6.0 | 0.98 | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Vinyl chloride             | <6.0   |           | 6.0 | 1.3  | ug/Kg | * |          | 04/17/15 10:35 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.54 | ug/Kg | * |          | 04/17/15 10:35 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 10:35 | 1       |
| Dibromofluoromethane         | 111       |           | 75 - 120 |          | 04/17/15 10:35 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 117       |           | 70 - 134 |          | 04/17/15 10:35 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 75 - 122 |          | 04/17/15 10:35 | 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 | * | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 1,2-Dichlorobenzene          | <200   |           | 200 | 47  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 1,3-Dichlorobenzene          | <200   |           | 200 | 44  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 1,4-Dichlorobenzene          | <200   |           | 200 | 51  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2,2'-oxybis[1-chloropropane] | <200   |           | 200 | 46  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 03:37 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315**

**Lab Sample ID: 500-94625-4**

**Date Collected: 04/13/15 14:20**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 84.0**

**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 | 90  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2,4,6-Trichlorophenol       | <390      |           | 390 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2,4-Dichlorophenol          | <390      |           | 390 | 94  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2,4-Dimethylphenol          | <390      |           | 390 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2,4-Dinitrophenol           | <800      | *         | 800 | 700 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2,4-Dinitrotoluene          | <200      |           | 200 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2,6-Dinitrotoluene          | <200      |           | 200 | 78  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2-Chloronaphthalene         | <200      |           | 200 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2-Chlorophenol              | <200      |           | 200 | 67  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2-Methylnaphthalene         | <39       |           | 39  | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2-Methylphenol              | <200      |           | 200 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2-Nitroaniline              | <200      |           | 200 | 53  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 2-Nitrophenol               | <390      |           | 390 | 93  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 3 & 4 Methylphenol          | <200      |           | 200 | 66  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 3,3'-Dichlorobenzidine      | <200      |           | 200 | 55  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 3-Nitroaniline              | <390      |           | 390 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 4,6-Dinitro-2-methylphenol  | <390      |           | 390 | 320 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 4-Bromophenyl phenyl ether  | <200      |           | 200 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 4-Chloro-3-methylphenol     | <390      |           | 390 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 4-Chloroaniline             | <800      |           | 800 | 190 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 4-Chlorophenyl phenyl ether | <200      |           | 200 | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 4-Nitroaniline              | <390      |           | 390 | 170 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| 4-Nitrophenol               | <800      |           | 800 | 380 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Acenaphthene                | <39       |           | 39  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Acenaphthylene              | <39       |           | 39  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Anthracene                  | <39       |           | 39  | 6.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>65</b> |           | 39  | 5.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>68</b> |           | 39  | 7.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>92</b> |           | 39  | 8.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>51</b> |           | 39  | 13  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>42</b> |           | 39  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Bis(2-chloroethoxy)methane  | <200      |           | 200 | 40  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Bis(2-chloroethyl)ether     | <200      |           | 200 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Bis(2-ethylhexyl) phthalate | <200      |           | 200 | 72  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Butyl benzyl phthalate      | <200      |           | 200 | 75  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Carbazole                   | <200      |           | 200 | 100 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| <b>Chrysene</b>             | <b>71</b> |           | 39  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Dibenz(a,h)anthracene       | <39       |           | 39  | 7.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Dibenzofuran                | <200      |           | 200 | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Diethyl phthalate           | <200      |           | 200 | 67  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Dimethyl phthalate          | <200      |           | 200 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Di-n-butyl phthalate        | <200      |           | 200 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Di-n-octyl phthalate        | <200      |           | 200 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| <b>Fluoranthene</b>         | <b>91</b> |           | 39  | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Fluorene                    | <39       |           | 39  | 5.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Hexachlorobenzene           | <80       |           | 80  | 9.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Hexachlorobutadiene         | <200      |           | 200 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Hexachlorocyclopentadiene   | <800      |           | 800 | 230 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |
| Hexachloroethane            | <200      |           | 200 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 03:37 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315**

**Lab Sample ID: 500-94625-4**

Date Collected: 04/13/15 14:20

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 84.0

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

| Analyte                       | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| <b>Indeno[1,2,3-cd]pyrene</b> | <b>63</b>        |                  | 39            | 10  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Isophorone                    | <200             |                  | 200           | 44  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Naphthalene                   | <39              |                  | 39            | 6.1 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Nitrobenzene                  | <39              |                  | 39            | 9.9 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| N-Nitrosodi-n-propylamine     | <200             |                  | 200           | 48  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| N-Nitrosodiphenylamine        | <200             |                  | 200           | 47  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Pentachlorophenol             | <800             |                  | 800           | 630 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| <b>Phenanthrene</b>           | <b>28 J</b>      |                  | 39            | 5.5 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Phenol                        | <200             |                  | 200           | 88  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| <b>Pyrene</b>                 | <b>140</b>       |                  | 39            | 7.8 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 2,4,6-Tribromophenol          | 58               |                  | 35 - 137      |     |       |   | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| 2-Fluorobiphenyl              | 49               |                  | 25 - 119      |     |       |   | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| 2-Fluorophenol                | 49               |                  | 25 - 110      |     |       |   | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Nitrobenzene-d5               | 49               |                  | 25 - 115      |     |       |   | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Phenol-d5                     | 41               |                  | 31 - 110      |     |       |   | 04/17/15 17:30  | 04/21/15 03:37  | 1              |
| Terphenyl-d14                 | 115              |                  | 36 - 134      |     |       |   | 04/17/15 17:30  | 04/21/15 03:37  | 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 |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| <b>Barium</b>    | <b>0.51</b>      |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Beryllium        | <0.0040          |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Cadmium          | <0.0050          |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 17:29 | 1       |
| Chromium         | <0.025           |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Cobalt           | <0.025           |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| <b>Copper</b>    | <b>0.011 J B</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Iron             | <0.20            |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Lead             | <0.0075          |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 17:29 | 1       |
| <b>Manganese</b> | <b>0.70</b>      |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Nickel           | <0.025           |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Selenium         | <0.050           |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| Silver           | <0.025           |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:52 | 1       |
| <b>Zinc</b>      | <b>0.033 J B</b> |           | 0.20   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 17:29 | 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 |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| <b>Barium</b>    | <b>0.072 J</b> |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| Beryllium        | <0.0040        |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| Cadmium          | <0.0050        |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:45 | 1       |
| <b>Chromium</b>  | <b>0.015 J</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| Cobalt           | <0.025         |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| <b>Copper</b>    | <b>0.015 J</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| <b>Iron</b>      | <b>2.7</b>     |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| Lead             | <0.0075        |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:45 | 1       |
| <b>Manganese</b> | <b>0.020 J</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| Nickel           | <0.025         |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| Selenium         | <0.050         |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315**

**Lab Sample ID: 500-94625-4**

Date Collected: 04/13/15 14:20

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 04:01 | 1       |
| Zinc    | 0.052  | J         | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:45 | 1       |

**Method: 6010B - Total Metals**

| Analyte   | Result | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony  | <1.1   |           | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Arsenic   | 4.7    |           | 0.56 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Barium    | 74     |           | 0.56 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Beryllium | 0.55   |           | 0.23 | 0.049 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Cadmium   | 0.20   |           | 0.11 | 0.033 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Calcium   | 23000  | B         | 12   | 3.8   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:12 | 1       |
| Chromium  | 13     |           | 0.56 | 0.097 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Cobalt    | 9.1    |           | 0.28 | 0.064 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Copper    | 14     |           | 0.56 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Iron      | 26000  |           | 12   | 4.5   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:12 | 1       |
| Lead      | 29     |           | 0.28 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Magnesium | 43000  |           | 5.6  | 2.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Manganese | 580    |           | 0.56 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Nickel    | 34     |           | 0.59 | 0.16  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:12 | 1       |
| Potassium | 850    |           | 28   | 4.6   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Selenium  | 0.47   | J         | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Silver    | <0.28  |           | 0.28 | 0.066 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Sodium    | 210    | B         | 56   | 7.4   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Thallium  | <0.56  |           | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Vanadium  | 20     |           | 0.28 | 0.082 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:02 | 1       |
| Zinc      | 78     | B         | 1.2  | 0.37  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:12 | 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 |   | 04/20/15 13:30 | 04/21/15 12:57 | 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 |   | 04/20/15 15:30 | 04/21/15 13:56 | 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 | 39     |           | 20 | 6.9 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 11:51 | 1       |

**General Chemistry**

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH      | 8.26   |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:43 | 1       |

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315D**

**Lab Sample ID: 500-94625-5**

**Date Collected: 04/13/15 14:20**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 83.1**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <6.0   |           | 6.0 | 2.6  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Benzene                    | <6.0   |           | 6.0 | 0.82 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Bromodichloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Bromoform                  | <6.0   |           | 6.0 | 1.4  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Bromomethane               | <6.0   |           | 6.0 | 1.8  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Carbon disulfide           | <6.0   |           | 6.0 | 0.90 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Carbon tetrachloride       | <6.0   |           | 6.0 | 1.1  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Chlorobenzene              | <6.0   |           | 6.0 | 0.61 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Chloroethane               | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Chloroform                 | <6.0   |           | 6.0 | 0.69 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Chloromethane              | <6.0   |           | 6.0 | 1.3  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| cis-1,2-Dichloroethene     | <6.0   |           | 6.0 | 0.85 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| cis-1,3-Dichloropropene    | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Dibromochloromethane       | <6.0   |           | 6.0 | 1.0  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,1-Dichloroethane         | <6.0   |           | 6.0 | 0.95 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,2-Dichloroethane         | <6.0   |           | 6.0 | 0.89 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,1,1-Dichloroethene       | <6.0   |           | 6.0 | 0.97 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,2-Dichloropropane        | <6.0   |           | 6.0 | 0.91 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,3-Dichloropropene, Total | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Ethylbenzene               | <6.0   |           | 6.0 | 1.2  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 2-Hexanone                 | <6.0   |           | 6.0 | 1.7  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Methylene Chloride         | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Methyl Ethyl Ketone        | <6.0   |           | 6.0 | 2.2  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| methyl isobutyl ketone     | <6.0   |           | 6.0 | 1.6  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Methyl tert-butyl ether    | <6.0   |           | 6.0 | 0.99 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Styrene                    | <6.0   |           | 6.0 | 0.79 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,1,1,2-Tetrachloroethane  | <6.0   |           | 6.0 | 1.2  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Tetrachloroethene          | <6.0   |           | 6.0 | 0.92 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Toluene                    | <6.0   |           | 6.0 | 0.84 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| trans-1,2-Dichloroethene   | <6.0   |           | 6.0 | 0.83 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| trans-1,3-Dichloropropene  | <6.0   |           | 6.0 | 1.1  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,1,1-Trichloroethane      | <6.0   |           | 6.0 | 0.90 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| 1,1,2-Trichloroethane      | <6.0   |           | 6.0 | 0.82 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Trichloroethene            | <6.0   |           | 6.0 | 0.99 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Vinyl chloride             | <6.0   |           | 6.0 | 1.3  | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.55 | ug/Kg | ☼ |          | 04/17/15 10:59 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 10:59 | 1       |
| Dibromofluoromethane         | 112       |           | 75 - 120 |          | 04/17/15 10:59 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 70 - 134 |          | 04/17/15 10:59 | 1       |
| Toluene-d8 (Surr)            | 110       |           | 75 - 122 |          | 04/17/15 10:59 | 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 | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315D**

**Lab Sample ID: 500-94625-5**

**Date Collected: 04/13/15 14:20**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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       | <380         |           | 380 | 86  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2,4,6-Trichlorophenol       | <380         |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2,4-Dichlorophenol          | <380         |           | 380 | 90  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2,4-Dimethylphenol          | <380         |           | 380 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2,4-Dinitrophenol           | <760 *       |           | 760 | 670 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2,4-Dinitrotoluene          | <190         |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2,6-Dinitrotoluene          | <190         |           | 190 | 74  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Chloronaphthalene         | <190         |           | 190 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Chlorophenol              | <190         |           | 190 | 65  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Methylnaphthalene         | <38          |           | 38  | 7.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Methylphenol              | <190         |           | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Nitroaniline              | <190         |           | 190 | 51  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Nitrophenol               | <380         |           | 380 | 89  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 3 & 4 Methylphenol          | <190         |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 3,3'-Dichlorobenzidine      | <190         |           | 190 | 53  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 3-Nitroaniline              | <380         |           | 380 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 4,6-Dinitro-2-methylphenol  | <380         |           | 380 | 300 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 4-Bromophenyl phenyl ether  | <190         |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 4-Chloro-3-methylphenol     | <380         |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 4-Chloroaniline             | <760         |           | 760 | 180 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 4-Chlorophenyl phenyl ether | <190         |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 4-Nitroaniline              | <380         |           | 380 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 4-Nitrophenol               | <760         |           | 760 | 360 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Acenaphthene                | <38          |           | 38  | 6.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Acenaphthylene              | <38          |           | 38  | 5.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Anthracene</b>           | <b>9.4 J</b> |           | 38  | 6.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>58</b>    |           | 38  | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>58</b>    |           | 38  | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>73</b>    |           | 38  | 8.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>38</b>    |           | 38  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>45</b>    |           | 38  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Bis(2-chloroethoxy)methane  | <190         |           | 190 | 39  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Bis(2-chloroethyl)ether     | <190         |           | 190 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Bis(2-ethylhexyl) phthalate | <190         |           | 190 | 69  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Butyl benzyl phthalate      | <190         |           | 190 | 72  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Carbazole                   | <190         |           | 190 | 98  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Chrysene</b>             | <b>58</b>    |           | 38  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Dibenz(a,h)anthracene       | <38          |           | 38  | 7.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Dibenzofuran                | <190         |           | 190 | 44  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Diethyl phthalate           | <190         |           | 190 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Dimethyl phthalate          | <190         |           | 190 | 49  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Di-n-butyl phthalate        | <190         |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Di-n-octyl phthalate        | <190         |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Fluoranthene</b>         | <b>95</b>    |           | 38  | 7.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Fluorene                    | <38          |           | 38  | 5.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Hexachlorobenzene           | <76          |           | 76  | 8.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Hexachlorobutadiene         | <190         |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Hexachlorocyclopentadiene   | <760         |           | 760 | 220 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Hexachloroethane            | <190         |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315D**

**Lab Sample ID: 500-94625-5**

**Date Collected: 04/13/15 14:20**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 83.1**

**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>48</b>   |           | 38       | 9.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Isophorone                    | <190        |           | 190      | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Naphthalene                   | <38         |           | 38       | 5.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Nitrobenzene                  | <38         |           | 38       | 9.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| N-Nitrosodi-n-propylamine     | <190        |           | 190      | 46  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| N-Nitrosodiphenylamine        | <190        |           | 190      | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Pentachlorophenol             | <760        |           | 760      | 610 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Phenanthrene</b>           | <b>36 J</b> |           | 38       | 5.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Phenol                        | <190        |           | 190      | 84  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| <b>Pyrene</b>                 | <b>150</b>  |           | 38       | 7.5 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Surrogate                     | %Recovery   | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol          | 63          |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Fluorobiphenyl              | 53          |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| 2-Fluorophenol                | 58          |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Nitrobenzene-d5               | 62          |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Phenol-d5                     | 45          |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 04:00 | 1       |
| Terphenyl-d14                 | 135 X       |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 04:00 | 1       |

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

| Analyte          | Result          | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050          |           | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| <b>Barium</b>    | <b>0.52</b>     |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Beryllium        | <0.0040         |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Cadmium          | <0.0050         |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 17:35 | 1       |
| Chromium         | <0.025          |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Cobalt           | <0.025          |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| <b>Copper</b>    | <b>0.025 B</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Iron             | <0.20           |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Lead             | <0.0075         |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 17:35 | 1       |
| <b>Manganese</b> | <b>0.48</b>     |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Nickel           | <0.025          |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Selenium         | <0.050          |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| Silver           | <0.025          |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 00:58 | 1       |
| <b>Zinc</b>      | <b>0.15 J B</b> |           | 0.20   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 17:35 | 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 |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| <b>Barium</b>    | <b>0.10 J</b>  |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| Beryllium        | <0.0040        |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| Cadmium          | <0.0050        |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:52 | 1       |
| <b>Chromium</b>  | <b>0.024 J</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| Cobalt           | <0.025         |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| <b>Copper</b>    | <b>0.024 J</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| <b>Iron</b>      | <b>8.7</b>     |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| Lead             | <0.0075        |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:52 | 1       |
| <b>Manganese</b> | <b>0.053</b>   |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| <b>Nickel</b>    | <b>0.012 J</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| Selenium         | <0.050         |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: GL-2(0-5)-041315D**

**Lab Sample ID: 500-94625-5**

Date Collected: 04/13/15 14:20

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 04:07 | 1       |
| <b>Zinc</b> | <b>0.91</b> |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 20:52 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result       | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.2         |           | 1.2  | 0.25  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Arsenic</b>   | <b>5.8</b>   |           | 0.60 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Barium</b>    | <b>79</b>    |           | 0.60 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Beryllium</b> | <b>0.67</b>  |           | 0.24 | 0.052 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Cadmium</b>   | <b>0.18</b>  |           | 0.12 | 0.034 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Calcium</b>   | <b>13000</b> | <b>B</b>  | 12   | 3.8   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:16 | 1       |
| <b>Chromium</b>  | <b>15</b>    |           | 0.60 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Cobalt</b>    | <b>11</b>    |           | 0.30 | 0.067 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Copper</b>    | <b>18</b>    |           | 0.60 | 0.13  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Iron</b>      | <b>26000</b> |           | 12   | 4.6   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:16 | 1       |
| <b>Lead</b>      | <b>27</b>    |           | 0.30 | 0.15  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Magnesium</b> | <b>24000</b> |           | 6.0  | 2.4   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Manganese</b> | <b>480</b>   |           | 0.60 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Nickel</b>    | <b>29</b>    |           | 0.59 | 0.16  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:16 | 1       |
| <b>Potassium</b> | <b>1300</b>  |           | 30   | 4.9   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| Selenium         | <0.60        |           | 0.60 | 0.29  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| Silver           | <0.30        |           | 0.30 | 0.070 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Sodium</b>    | <b>190</b>   | <b>B</b>  | 60   | 7.9   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| Thallium         | <0.60        |           | 0.60 | 0.29  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Vanadium</b>  | <b>23</b>    |           | 0.30 | 0.087 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:07 | 1       |
| <b>Zinc</b>      | <b>73</b>    | <b>B</b>  | 1.2  | 0.37  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:16 | 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 |   | 04/20/15 13:30 | 04/21/15 12:59 | 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 |   | 04/20/15 15:30 | 04/21/15 13:58 | 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> |           | 20 | 6.9 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 11:53 | 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   |   |          | 04/17/15 15:45 | 1       |

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| X         | Surrogate is outside control limits                                                                            |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                              |

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| F2        | MS/MSD RPD exceeds 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. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## 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           | 04-30-16        |

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 6  
Phone: 708.534.5200 Fax: 708.534.5200



500-94625 COC

Report To (optional)  
Contact: S. Babuskawa  
Company: Weston Solutions  
Address: 300 Plaza Cir  
Mundelein, IL  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-94625

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

Page 5 of \_\_\_\_\_

Temperature °C of Cooler: 33, 3.5, 2, 9, 30

| Client                   |        | Client Project #           |             | Preservative |                 | Parameter |      | Matrix          |        | Comments                                                                                                                                                                                    |    |
|--------------------------|--------|----------------------------|-------------|--------------|-----------------|-----------|------|-----------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <u>Weston</u>            |        | <u>IDOT 014</u>            |             |              |                 |           |      |                 |        | Preservative Key<br>1. HCL, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |    |
| Project Name             |        | Lab Project #              |             | Date         |                 | Time      |      | # of Containers |        | Matrix                                                                                                                                                                                      |    |
| <u>IDOT 014 Wheeling</u> |        |                            |             |              |                 |           |      |                 |        |                                                                                                                                                                                             |    |
| Project Location/State   |        | Lab PM                     |             | Date         |                 | Time      |      | # of Containers |        | Matrix                                                                                                                                                                                      |    |
| <u>Wheeling IL</u>       |        | <u>curright</u>            |             |              |                 |           |      |                 |        |                                                                                                                                                                                             |    |
| Sampler                  |        | Lab PM                     |             | Date         |                 | Time      |      | # of Containers |        | Matrix                                                                                                                                                                                      |    |
| <u>Colomb</u>            |        |                            |             |              |                 |           |      |                 |        |                                                                                                                                                                                             |    |
| Lab ID                   | MS/MSD | Sample ID                  | Date        | Time         | # of Containers | Matrix    | VOCs | SVOCS           | Metals | Temp/Sp/                                                                                                                                                                                    | pH |
| <u>1</u>                 |        | <u>GL-1(0-5)-041315</u>    | <u>4/13</u> | <u>1405</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>2</u>                 |        | <u>GL-1(5-10)-041315</u>   | <u>4/13</u> | <u>1410</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>3</u>                 |        | <u>GL-1(10-15)-041315</u>  | <u>4/13</u> | <u>1415</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>4</u>                 |        | <u>GL-2(0-5)-041315</u>    | <u>4/13</u> | <u>1420</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>5</u>                 |        | <u>GL-2(0-5)-041315D</u>   | <u>4/13</u> | <u>1420</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>6</u>                 |        | <u>GL-3(0-1)-041315</u>    | <u>4/13</u> | <u>1430</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>7</u>                 |        | <u>CB 31-1(0-1)-041315</u> | <u>4/13</u> | <u>1435</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>8</u>                 |        | <u>4MM-01(0-1)-041315</u>  | <u>4/13</u> | <u>1440</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  3 weeks Other

Sample Disposal

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

|                                                                                                   |                                                                                               |                        |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>4/13/15</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/13/15</u> Time: <u>1500</u>     | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/14/15</u> Time: <u>1300</u>     | Received By: <u>[Signature]</u> Company: <u>TA-ENG</u> Date: <u>4/14/15</u> Time: <u>1300</u> | Shipped: _____         |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____                                     | Received By: _____ Company: _____ Date: _____ Time: _____                                     | Hand Delivered: _____  |

Matrix Key

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

Client Comments

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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
75-77 S Wheeling Road (ISGS Site No. 2646-31)

City: Wheeling 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: 42.139189395 Longitude: -87.929512686  
(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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd

Latitude: 42.139189395 Longitude: -87.929512686

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 CB31-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2646-31. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL 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 REPORT - JOB ID: 500-94625-1.  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

*William F. Karlovitz*  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

25 June 2015

Date:



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

**Summary Table of ISGS Site No. 2646-31**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

| Field Sample ID             | CB31-1(0-1)-041315   | <b>Soil Reference Concentrations<sup>A</sup></b> |
|-----------------------------|----------------------|--------------------------------------------------|
| Sample Date                 | 4/13/2015            |                                                  |
| Location ID                 | CB31-1               |                                                  |
| Depth                       | 0 - 1                |                                                  |
| ISGS Site No.               | 2646-31              |                                                  |
| Parameter                   |                      |                                                  |
| Laboratory pH (s.u.)        | 8.52                 | <6.25,>9.0                                       |
| <b>VOCs (ug/kg)</b>         | <b>None Detected</b> |                                                  |
| <b>SVOCs (ug/kg)</b>        |                      |                                                  |
| Benzo(a)pyrene              | 280                  | 90 / 1300 / 2100                                 |
| <b>Total Metals (mg/kg)</b> |                      |                                                  |
| Antimony, Total             | ND                   | 5                                                |
| Arsenic, Total              | 3.6 J                | 11.3 / 13                                        |
| Barium, Total               | 51                   | 1500                                             |
| Beryllium, Total            | 0.34                 | 22                                               |
| Cadmium, Total              | 0.54                 | 5.2                                              |
| Calcium, Total              | 78000 J              | ---                                              |
| Chromium, Total             | 16                   | 21                                               |
| Cobalt, Total               | 5.2                  | 20                                               |
| Copper, Total               | 26                   | 2900                                             |
| Iron, Total                 | 12000 J              | 15000 / 15900                                    |
| Lead, Total                 | 93 J+                | 107                                              |
| Magnesium, Total            | 49000 J              | 325000                                           |
| Manganese, Total            | 310 J-               | 630 / 636                                        |
| Mercury, Total              | 0.027 J+             | 0.89                                             |
| Nickel, Total               | 16 J                 | 100                                              |
| Potassium, Total            | 870 J+               | ---                                              |
| Selenium, Total             | 0.54 J               | 1.3                                              |
| Silver, Total               | ND                   | 4.4                                              |
| Sodium, Total               | 310 B                |                                                  |
| Thallium, Total             | ND                   | 2.6                                              |
| Vanadium, Total             | 15                   | 550                                              |
| Zinc, Total                 | 88 J+                | 5100                                             |
| <b>TCLP Metals (mg/l)</b>   |                      |                                                  |
| Arsenic, TCLP               | ND                   | 0.05                                             |
| Barium, TCLP                | 0.53                 | 2                                                |
| Cadmium, TCLP               | 0.0056               | 0.005                                            |
| Cobalt, TCLP                | 0.023 J              | 1                                                |
| Copper, TCLP                | ND                   | 0.65                                             |
| Iron, TCLP                  | ND                   | 5                                                |
| Lead, TCLP                  | 0.052                | 0.0075                                           |
| Manganese, TCLP             | 4.2                  | 0.15                                             |
| Nickel, TCLP                | ND                   | 0.1                                              |
| Zinc, TCLP                  | ND                   | 5                                                |
| <b>SPLP Metals (mg/l)</b>   |                      |                                                  |
| Arsenic, SPLP               | ND                   | 0.05                                             |
| Barium, SPLP                | 0.16 J               | 2                                                |
| Beryllium, SPLP             | ND                   | 0.004                                            |
| Cadmium, SPLP               | ND                   | 0.005                                            |
| Chromium, SPLP              | 0.08                 | 0.1                                              |
| Cobalt, SPLP                | ND                   | 1                                                |
| Copper, SPLP                | 0.042                | 0.65                                             |
| Iron, SPLP                  | 24                   | 5                                                |
| Lead, SPLP                  | 0.08                 | 0.0075                                           |
| Manganese, SPLP             | 0.19                 | 0.15                                             |
| Mercury, SPLP               | ND                   | 0.002                                            |
| Nickel, SPLP                | 0.023 J              | 0.1                                              |
| Zinc, SPLP                  | 1.1                  | 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 low.

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: 500-94625-1

Client Project/Site: IDOT - Wheeling - WO 014

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

4/23/2015 10:11:06 AM

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 - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: CB31-1(0-1)-041315**

**Lab Sample ID: 500-94625-7**

**Date Collected: 04/13/15 14:35**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 88.4**

**Method: 8260B - VOC**

| Analyte                    | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone                    | <5.7   |           | 5.7 | 2.4  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Benzene                    | <5.7   |           | 5.7 | 0.77 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Bromodichloromethane       | <5.7   |           | 5.7 | 0.97 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Bromoform                  | <5.7   |           | 5.7 | 1.3  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Bromomethane               | <5.7   |           | 5.7 | 1.7  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Carbon disulfide           | <5.7   |           | 5.7 | 0.85 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Carbon tetrachloride       | <5.7   |           | 5.7 | 1.0  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Chlorobenzene              | <5.7   |           | 5.7 | 0.57 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Chloroethane               | <5.7   |           | 5.7 | 1.5  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Chloroform                 | <5.7   |           | 5.7 | 0.65 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Chloromethane              | <5.7   |           | 5.7 | 1.2  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| cis-1,2-Dichloroethene     | <5.7   |           | 5.7 | 0.80 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| cis-1,3-Dichloropropene    | <5.7   |           | 5.7 | 0.74 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Dibromochloromethane       | <5.7   |           | 5.7 | 0.98 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,1-Dichloroethane         | <5.7   |           | 5.7 | 0.89 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,2-Dichloroethane         | <5.7   |           | 5.7 | 0.84 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,1-Dichloroethene         | <5.7   |           | 5.7 | 0.91 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,2-Dichloropropane        | <5.7   |           | 5.7 | 0.86 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,3-Dichloropropene, Total | <5.7   |           | 5.7 | 0.74 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Ethylbenzene               | <5.7   |           | 5.7 | 1.1  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 2-Hexanone                 | <5.7   |           | 5.7 | 1.6  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Methylene Chloride         | <5.7   |           | 5.7 | 1.5  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Methyl Ethyl Ketone        | <5.7   |           | 5.7 | 2.0  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| methyl isobutyl ketone     | <5.7   |           | 5.7 | 1.5  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Methyl tert-butyl ether    | <5.7   |           | 5.7 | 0.93 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Styrene                    | <5.7   |           | 5.7 | 0.74 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,1,1,2-Tetrachloroethane  | <5.7   |           | 5.7 | 1.1  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Tetrachloroethene          | <5.7   |           | 5.7 | 0.86 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Toluene                    | <5.7   |           | 5.7 | 0.79 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| trans-1,2-Dichloroethene   | <5.7   |           | 5.7 | 0.78 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| trans-1,3-Dichloropropene  | <5.7   |           | 5.7 | 1.0  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,1,1-Trichloroethane      | <5.7   |           | 5.7 | 0.85 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| 1,1,2-Trichloroethane      | <5.7   |           | 5.7 | 0.77 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Trichloroethene            | <5.7   |           | 5.7 | 0.93 | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Vinyl chloride             | <5.7   |           | 5.7 | 1.2  | ug/Kg | * |          | 04/17/15 12:35 | 1       |
| Xylenes, Total             | <11    |           | 11  | 0.51 | ug/Kg | * |          | 04/17/15 12:35 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 102       |           | 70 - 122 |          | 04/17/15 12:35 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 |          | 04/17/15 12:35 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 70 - 134 |          | 04/17/15 12:35 | 1       |
| Toluene-d8 (Surr)            | 108       |           | 75 - 122 |          | 04/17/15 12:35 | 1       |

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

| Analyte                      | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene       | <180   |           | 180 | 38  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 1,2-Dichlorobenzene          | <180   |           | 180 | 43  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 1,3-Dichlorobenzene          | <180   |           | 180 | 40  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 1,4-Dichlorobenzene          | <180   |           | 180 | 46  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2,2'-oxybis[1-chloropropane] | <180   |           | 180 | 41  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 04:47 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: CB31-1(0-1)-041315**

**Lab Sample ID: 500-94625-7**

**Date Collected: 04/13/15 14:35**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 88.4**

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

| Analyte                     | Result     | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | <350       |           | 350 | 81  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2,4,6-Trichlorophenol       | <350       |           | 350 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2,4-Dichlorophenol          | <350       |           | 350 | 85  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2,4-Dimethylphenol          | <350       |           | 350 | 140 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2,4-Dinitrophenol           | <720       | *         | 720 | 630 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2,4-Dinitrotoluene          | <180       |           | 180 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2,6-Dinitrotoluene          | <180       |           | 180 | 70  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2-Chloronaphthalene         | <180       |           | 180 | 39  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2-Chlorophenol              | <180       |           | 180 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2-Methylnaphthalene         | <35        |           | 35  | 6.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2-Methylphenol              | <180       |           | 180 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2-Nitroaniline              | <180       |           | 180 | 48  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 2-Nitrophenol               | <350       |           | 350 | 84  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 3 & 4 Methylphenol          | <180       |           | 180 | 59  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 3,3'-Dichlorobenzidine      | <180       |           | 180 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 3-Nitroaniline              | <350       |           | 350 | 110 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 4,6-Dinitro-2-methylphenol  | <350       |           | 350 | 290 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 4-Bromophenyl phenyl ether  | <180       |           | 180 | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 4-Chloro-3-methylphenol     | <350       |           | 350 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 4-Chloroaniline             | <720       |           | 720 | 170 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 4-Chlorophenyl phenyl ether | <180       |           | 180 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 4-Nitroaniline              | <350       |           | 350 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| 4-Nitrophenol               | <720       |           | 720 | 340 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Acenaphthene                | <35        |           | 35  | 6.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Acenaphthylene              | <35        |           | 35  | 4.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Anthracene</b>           | <b>25</b>  | <b>J</b>  | 35  | 6.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>250</b> |           | 35  | 4.8 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>280</b> |           | 35  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>400</b> |           | 35  | 7.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>190</b> |           | 35  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>180</b> |           | 35  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Bis(2-chloroethoxy)methane  | <180       |           | 180 | 36  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Bis(2-chloroethyl)ether     | <180       |           | 180 | 53  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Bis(2-ethylhexyl) phthalate | <180       |           | 180 | 65  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Butyl benzyl phthalate      | <180       |           | 180 | 68  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Carbazole                   | <180       |           | 180 | 92  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Chrysene</b>             | <b>280</b> |           | 35  | 9.7 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Dibenz(a,h)anthracene       | <35        |           | 35  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Dibenzofuran                | <180       |           | 180 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Diethyl phthalate           | <180       |           | 180 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Dimethyl phthalate          | <180       |           | 180 | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Di-n-butyl phthalate        | <180       |           | 180 | 54  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Di-n-octyl phthalate        | <180       |           | 180 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| <b>Fluoranthene</b>         | <b>470</b> |           | 35  | 6.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Fluorene                    | <35        |           | 35  | 5.0 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Hexachlorobenzene           | <72        |           | 72  | 8.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Hexachlorobutadiene         | <180       |           | 180 | 56  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Hexachlorocyclopentadiene   | <720       |           | 720 | 200 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |
| Hexachloroethane            | <180       |           | 180 | 54  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 04:47 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: CB31-1(0-1)-041315**

**Lab Sample ID: 500-94625-7**

Date Collected: 04/13/15 14:35

Matrix: Solid

Date Received: 04/14/15 13:00

Percent Solids: 88.4

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

| Analyte                       | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| <b>Indeno[1,2,3-cd]pyrene</b> | <b>230</b>       |                  | 35            | 9.2 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Isophorone                    | <180             |                  | 180           | 40  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Naphthalene                   | <35              |                  | 35            | 5.5 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Nitrobenzene                  | <35              |                  | 35            | 8.9 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| N-Nitrosodi-n-propylamine     | <180             |                  | 180           | 44  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| N-Nitrosodiphenylamine        | <180             |                  | 180           | 42  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Pentachlorophenol             | <720             |                  | 720           | 570 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| <b>Phenanthrene</b>           | <b>140</b>       |                  | 35            | 5.0 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Phenol                        | <180             |                  | 180           | 79  | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| <b>Pyrene</b>                 | <b>590</b>       |                  | 35            | 7.1 | ug/Kg | ☼ | 04/17/15 17:30  | 04/21/15 04:47  | 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          | 38               |                  | 35 - 137      |     |       |   | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| 2-Fluorobiphenyl              | 28               |                  | 25 - 119      |     |       |   | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| 2-Fluorophenol                | 29               |                  | 25 - 110      |     |       |   | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Nitrobenzene-d5               | 30               |                  | 25 - 115      |     |       |   | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Phenol-d5                     | 22               | X                | 31 - 110      |     |       |   | 04/17/15 17:30  | 04/21/15 04:47  | 1              |
| Terphenyl-d14                 | 45               |                  | 36 - 134      |     |       |   | 04/17/15 17:30  | 04/21/15 04:47  | 1              |

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

| Analyte          | Result        | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050        |           | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| <b>Barium</b>    | <b>0.53</b>   |           | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| Beryllium        | <0.0040       |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| <b>Cadmium</b>   | <b>0.0056</b> |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 16:18 | 1       |
| Chromium         | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| <b>Cobalt</b>    | <b>0.023</b>  | J         | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| <b>Copper</b>    | <b>0.010</b>  | J         | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| Iron             | <0.20         |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| <b>Lead</b>      | <b>0.052</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 16:18 | 1       |
| <b>Manganese</b> | <b>4.2</b>    |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| <b>Nickel</b>    | <b>0.022</b>  | J B       | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| Selenium         | <0.050        |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| Silver           | <0.025        |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/20/15 23:41 | 1       |
| <b>Zinc</b>      | <b>0.24</b>   | B         | 0.20   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 16:18 | 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 |   | 04/21/15 08:35 | 04/21/15 04:34 | 1       |
| <b>Barium</b>    | <b>0.16</b>  | J         | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:04 | 1       |
| <b>Chromium</b>  | <b>0.080</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| Cobalt           | <0.025       |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| <b>Copper</b>    | <b>0.042</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| <b>Iron</b>      | <b>24</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| <b>Lead</b>      | <b>0.080</b> |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:04 | 1       |
| <b>Manganese</b> | <b>0.19</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| <b>Nickel</b>    | <b>0.023</b> | J         | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: CB31-1(0-1)-041315**

**Lab Sample ID: 500-94625-7**

Date Collected: 04/13/15 14:35

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 04:34 | 1       |
| Zinc    | 1.1    |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:04 | 1       |

**Method: 6010B - Total Metals**

| Analyte   | Result | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony  | <1.1   |           | 1.1  | 0.23  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Arsenic   | 3.6    |           | 0.56 | 0.26  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Barium    | 51     |           | 0.56 | 0.10  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Beryllium | 0.34   |           | 0.22 | 0.048 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Cadmium   | 0.54   |           | 0.11 | 0.032 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Calcium   | 78000  | B         | 110  | 34    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 14:15 | 10      |
| Chromium  | 16     |           | 0.56 | 0.096 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Cobalt    | 5.2    |           | 0.28 | 0.063 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Copper    | 26     |           | 0.56 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Iron      | 12000  |           | 11   | 4.1   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:26 | 1       |
| Lead      | 93     |           | 0.28 | 0.14  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Magnesium | 49000  |           | 5.6  | 2.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Manganese | 310    |           | 0.56 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Nickel    | 16     |           | 0.53 | 0.14  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:26 | 1       |
| Potassium | 870    |           | 28   | 4.5   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Selenium  | 0.54   | J         | 0.56 | 0.28  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Silver    | <0.28  |           | 0.28 | 0.065 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Sodium    | 310    | B         | 56   | 7.3   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Thallium  | <0.56  |           | 0.56 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Vanadium  | 15     |           | 0.28 | 0.081 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 1       |
| Zinc      | 88     | B ^       | 1.1  | 0.35  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:17 | 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 |   | 04/20/15 13:30 | 04/21/15 13:06 | 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 |   | 04/20/15 15:30 | 04/21/15 14:02 | 1       |

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

| Analyte | Result | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 27     |           | 17 | 5.8 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 11:57 | 1       |

**General Chemistry**

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH      | 8.52   |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:48 | 1       |

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| X         | Surrogate is outside control limits                                                                            |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                              |

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| F2        | MS/MSD RPD exceeds 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. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## 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           | 04-30-16        |

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 6  
Phone: 708.534.5200 Fax: 708.534.5200



500-94625 COC

Report To (optional)  
Contact: S. Babuskawa  
Company: Weston Solutions  
Address: 300 Plaza Cir  
Mundelein, IL  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-94625

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

Page 5 of \_\_\_\_\_

Temperature °C of Cooler: 33, 3.5, 2, 9, 30

| Client                   |                      | Client Project # |             | Preservative |          | Parameter |  | Matrix          |  | Comments                                                                                                                                                                                    |  |
|--------------------------|----------------------|------------------|-------------|--------------|----------|-----------|--|-----------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <u>Weston</u>            |                      | <u>IDOT 014</u>  |             |              |          |           |  |                 |  | Preservative Key<br>1. HCL, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |  |
| Project Name             |                      | Lab Project #    |             | Date         |          | Time      |  | # of Containers |  | Matrix                                                                                                                                                                                      |  |
| <u>IDOT 014 Wheeling</u> |                      |                  |             |              |          |           |  |                 |  |                                                                                                                                                                                             |  |
| Project Location/State   |                      | Lab PM           |             | Date         |          | Time      |  | # of Containers |  | Matrix                                                                                                                                                                                      |  |
| <u>Wheeling IL</u>       |                      | <u>curright</u>  |             |              |          |           |  |                 |  |                                                                                                                                                                                             |  |
| Sampler                  |                      | Sample ID        |             | Date         |          | Time      |  | # of Containers |  | Matrix                                                                                                                                                                                      |  |
| <u>Colomb</u>            |                      |                  |             |              |          |           |  |                 |  |                                                                                                                                                                                             |  |
| <u>1</u>                 | <u>GL-1(0-5)-</u>    | <u>041315</u>    | <u>4/13</u> | <u>1405</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |
| <u>2</u>                 | <u>GL-1(5-10)-</u>   | <u>041315</u>    | <u>4/13</u> | <u>1410</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |
| <u>3</u>                 | <u>GL-1(10-15)-</u>  | <u>041315</u>    | <u>4/13</u> | <u>1415</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |
| <u>4</u>                 | <u>GL-2(0-5)-</u>    | <u>041315</u>    | <u>4/13</u> | <u>1420</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |
| <u>5</u>                 | <u>GL-2(0-5)-</u>    | <u>041315D</u>   | <u>4/13</u> | <u>1420</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |
| <u>6</u>                 | <u>GL-3(0-1)-</u>    | <u>041315</u>    | <u>4/13</u> | <u>1430</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |
| <u>7</u>                 | <u>CB 31-1(0-1)-</u> | <u>041315</u>    | <u>4/13</u> | <u>1435</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |
| <u>8</u>                 | <u>4MM-01(0-1)-</u>  | <u>041315</u>    | <u>4/13</u> | <u>1440</u>  | <u>2</u> | <u>S</u>  |  |                 |  |                                                                                                                                                                                             |  |

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  30 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<br><u>[Signature]</u><br>Company: <u>Weston</u><br>Date: <u>4/13/15</u><br>Time: <u>1500</u> | Received By<br><u>[Signature]</u><br>Company: <u>TA</u><br>Date: <u>4/13/15</u><br>Time: <u>1500</u>     |
| Relinquished By<br><u>[Signature]</u><br>Company: <u>TA</u><br>Date: <u>4/14/15</u><br>Time: <u>1300</u>     | Received By<br><u>[Signature]</u><br>Company: <u>TA-ENG</u><br>Date: <u>4/14/15</u><br>Time: <u>1300</u> |
| Relinquished By<br>Company: _____<br>Date: _____<br>Time: _____                                              | Received By<br>Company: _____<br>Date: _____<br>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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
129 S Railroad Ave (ISGS Site No. 2646-32)

City: Wheeling 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: 42.139194915 Longitude: -87.929186616  
(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: FAP 343: IL 68; IL 83 to McHenry/Wheeling Rd

Latitude: 42.139194915 Longitude: -87.929186616

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 MM-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2646-32. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL 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 REPORT - JOB ID: 500-94625-1.  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

*William F. Karlovitz*

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

25 June 2015

Date:



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

**Summary Table of ISGS Site No. 2646-32**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 343: IL 68 (W. Dundee Rd) from IL 83 to McHenry/Wheeling Road**  
**Wheeling, Cook County, Illinois**

| Field Sample ID             | MM-01(0-1)-041315 | <b>Soil Reference Concentrations<sup>A</sup></b> |
|-----------------------------|-------------------|--------------------------------------------------|
| Sample Date                 | 4/13/2015         |                                                  |
| Location ID                 | MM-1              |                                                  |
| Depth                       | 0 - 1             |                                                  |
| ISGS Site No.               | 2646-32           |                                                  |
| Parameter                   |                   |                                                  |
| Laboratory pH (s.u.)        | 8.4               | <6.25,>9.0                                       |
| <b>VOCs (ug/kg)</b>         | None Detected     |                                                  |
| <b>SVOCs (ug/kg)</b>        |                   |                                                  |
| Benzo(a)pyrene              | 540               | 90 / 1300 / 2100                                 |
| <b>Total Metals (mg/kg)</b> |                   |                                                  |
| Antimony, Total             | ND                | 5                                                |
| Arsenic, Total              | 4.7 J             | 11.3 / 13                                        |
| Barium, Total               | 53                | 1500                                             |
| Beryllium, Total            | 0.49              | 22                                               |
| Cadmium, Total              | 0.33              | 5.2                                              |
| Calcium, Total              | 140000 J          | ---                                              |
| Chromium, Total             | 15                | 21                                               |
| Cobalt, Total               | 8                 | 20                                               |
| Copper, Total               | 23                | 2900                                             |
| Iron, Total                 | 10000 J           | 15000 / 15900                                    |
| Lead, Total                 | 100 J+            | 107                                              |
| Magnesium, Total            | 34000 J           | 325000                                           |
| Manganese, Total            | 340 J-            | 630 / 636                                        |
| Mercury, Total              | 0.025 J+          | 0.89                                             |
| Nickel, Total               | 13 J              | 100                                              |
| Potassium, Total            | 1500 J+           | ---                                              |
| Selenium, Total             | ND                | 1.3                                              |
| Silver, Total               | ND                | 4.4                                              |
| Sodium, Total               | 680 B             |                                                  |
| Thallium, Total             | ND                | 2.6                                              |
| Vanadium, Total             | 19                | 550                                              |
| Zinc, Total                 | 81 J+             | 5100                                             |
| <b>TCLP Metals (mg/l)</b>   |                   |                                                  |
| Arsenic, TCLP               | ND                | 0.05                                             |
| Barium, TCLP                | 0.46 J            | 2                                                |
| Cadmium, TCLP               | 0.0023 J          | 0.005                                            |
| Cobalt, TCLP                | ND                | 1                                                |
| Copper, TCLP                | ND                | 0.65                                             |
| Iron, TCLP                  | ND                | 5                                                |
| Lead, TCLP                  | 0.02              | 0.0075                                           |
| Manganese, TCLP             | 1                 | 0.15                                             |
| Nickel, TCLP                | ND                | 0.1                                              |
| Zinc, TCLP                  | ND                | 5                                                |
| <b>SPLP Metals (mg/l)</b>   |                   |                                                  |
| Arsenic, SPLP               | 0.021 J           | 0.05                                             |
| Barium, SPLP                | 0.33 J            | 2                                                |
| Beryllium, SPLP             | ND                | 0.004                                            |
| Cadmium, SPLP               | ND                | 0.005                                            |
| Chromium, SPLP              | 0.085             | 0.1                                              |
| Cobalt, SPLP                | 0.015 J           | 1                                                |
| Copper, SPLP                | 0.091             | 0.65                                             |
| Iron, SPLP                  | 66                | 5                                                |
| Lead, SPLP                  | 0.15              | 0.0075                                           |
| Manganese, SPLP             | 0.48              | 0.15                                             |
| Mercury, SPLP               | ND                | 0.002                                            |
| Nickel, SPLP                | 0.061             | 0.1                                              |
| Zinc, SPLP                  | 0.33              | 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 low.

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: 500-94625-1  
Client Project/Site: IDOT - Wheeling - WO 014

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
4/23/2015 10:11:06 AM

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 - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MM-01(0-1)-041315**

**Lab Sample ID: 500-94625-8**

**Date Collected: 04/13/15 14:40**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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 | * |          | 04/17/15 12:58 | 1       |
| Benzene                    | <5.8   |           | 5.8 | 0.79 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Bromodichloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Bromoform                  | <5.8   |           | 5.8 | 1.3  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Bromomethane               | <5.8   |           | 5.8 | 1.8  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Carbon disulfide           | <5.8   |           | 5.8 | 0.87 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Carbon tetrachloride       | <5.8   |           | 5.8 | 1.1  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Chlorobenzene              | <5.8   |           | 5.8 | 0.59 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Chloroethane               | <5.8   |           | 5.8 | 1.6  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Chloroform                 | <5.8   |           | 5.8 | 0.67 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Chloromethane              | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| cis-1,2-Dichloroethene     | <5.8   |           | 5.8 | 0.82 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| cis-1,3-Dichloropropene    | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Dibromochloromethane       | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,1-Dichloroethane         | <5.8   |           | 5.8 | 0.92 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,2-Dichloroethane         | <5.8   |           | 5.8 | 0.86 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,1-Dichloroethene         | <5.8   |           | 5.8 | 0.94 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,2-Dichloropropane        | <5.8   |           | 5.8 | 0.88 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,3-Dichloropropene, Total | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Ethylbenzene               | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 2-Hexanone                 | <5.8   |           | 5.8 | 1.7  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Methylene Chloride         | <5.8   |           | 5.8 | 1.6  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Methyl Ethyl Ketone        | <5.8   |           | 5.8 | 2.1  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| methyl isobutyl ketone     | <5.8   |           | 5.8 | 1.5  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Methyl tert-butyl ether    | <5.8   |           | 5.8 | 0.96 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Styrene                    | <5.8   |           | 5.8 | 0.76 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,1,2,2-Tetrachloroethane  | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Tetrachloroethene          | <5.8   |           | 5.8 | 0.89 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Toluene                    | <5.8   |           | 5.8 | 0.81 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| trans-1,2-Dichloroethene   | <5.8   |           | 5.8 | 0.80 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| trans-1,3-Dichloropropene  | <5.8   |           | 5.8 | 1.0  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,1,1-Trichloroethane      | <5.8   |           | 5.8 | 0.87 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| 1,1,2-Trichloroethane      | <5.8   |           | 5.8 | 0.79 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Trichloroethene            | <5.8   |           | 5.8 | 0.96 | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Vinyl chloride             | <5.8   |           | 5.8 | 1.2  | ug/Kg | * |          | 04/17/15 12:58 | 1       |
| Xylenes, Total             | <12    |           | 12  | 0.53 | ug/Kg | * |          | 04/17/15 12:58 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 122 |          | 04/17/15 12:58 | 1       |
| Dibromofluoromethane         | 112       |           | 75 - 120 |          | 04/17/15 12:58 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 70 - 134 |          | 04/17/15 12:58 | 1       |
| Toluene-d8 (Surr)            | 110       |           | 75 - 122 |          | 04/17/15 12:58 | 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 | * | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 1,2-Dichlorobenzene          | <190   |           | 190 | 46  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 1,3-Dichlorobenzene          | <190   |           | 190 | 43  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 1,4-Dichlorobenzene          | <190   |           | 190 | 49  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2,2'-oxybis[1-chloropropane] | <190   |           | 190 | 44  | ug/Kg | * | 04/17/15 17:30 | 04/21/15 05:10 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MM-01(0-1)-041315**

**Lab Sample ID: 500-94625-8**

**Date Collected: 04/13/15 14:40**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**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       | <380        |           | 380 | 88  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2,4,6-Trichlorophenol       | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2,4-Dichlorophenol          | <380        |           | 380 | 91  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2,4-Dimethylphenol          | <380        |           | 380 | 150 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2,4-Dinitrophenol           | <770        | *         | 770 | 680 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2,4-Dinitrotoluene          | <190        |           | 190 | 61  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2,6-Dinitrotoluene          | <190        |           | 190 | 75  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Chloronaphthalene         | <190        |           | 190 | 42  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Chlorophenol              | <190        |           | 190 | 65  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Methylnaphthalene         | <38         |           | 38  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Methylphenol              | <190        |           | 190 | 62  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Nitroaniline              | <190        |           | 190 | 52  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Nitrophenol               | <380        |           | 380 | 91  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 3 & 4 Methylphenol          | <190        |           | 190 | 64  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 3,3'-Dichlorobenzidine      | <190        |           | 190 | 54  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 3-Nitroaniline              | <380        |           | 380 | 120 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 4,6-Dinitro-2-methylphenol  | <380        |           | 380 | 310 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 4-Bromophenyl phenyl ether  | <190        |           | 190 | 51  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 4-Chloro-3-methylphenol     | <380        |           | 380 | 130 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 4-Chloroaniline             | <770        |           | 770 | 180 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 4-Chlorophenyl phenyl ether | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 4-Nitroaniline              | <380        |           | 380 | 160 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 4-Nitrophenol               | <770        |           | 770 | 360 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Acenaphthene</b>         | <b>18</b>   | <b>J</b>  | 38  | 6.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Acenaphthylene              | <38         |           | 38  | 5.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Anthracene</b>           | <b>77</b>   |           | 38  | 6.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Benzo[a]anthracene</b>   | <b>530</b>  |           | 38  | 5.2 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Benzo[a]pyrene</b>       | <b>540</b>  |           | 38  | 7.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Benzo[b]fluoranthene</b> | <b>770</b>  |           | 38  | 8.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Benzo[g,h,i]perylene</b> | <b>350</b>  |           | 38  | 12  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Benzo[k]fluoranthene</b> | <b>350</b>  |           | 38  | 11  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Bis(2-chloroethoxy)methane  | <190        |           | 190 | 39  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Bis(2-chloroethyl)ether     | <190        |           | 190 | 57  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Bis(2-ethylhexyl) phthalate | <190        |           | 190 | 70  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Butyl benzyl phthalate      | <190        |           | 190 | 73  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Carbazole                   | <190        |           | 190 | 99  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Chrysene</b>             | <b>580</b>  |           | 38  | 10  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Dibenz(a,h)anthracene       | <38         |           | 38  | 7.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Dibenzofuran                | <190        |           | 190 | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Diethyl phthalate           | <190        |           | 190 | 65  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Dimethyl phthalate          | <190        |           | 190 | 50  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Di-n-butyl phthalate        | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Di-n-octyl phthalate        | <190        |           | 190 | 63  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Fluoranthene</b>         | <b>1100</b> |           | 38  | 7.1 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Fluorene                    | <38         |           | 38  | 5.4 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Hexachlorobenzene           | <77         |           | 77  | 8.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Hexachlorobutadiene         | <190        |           | 190 | 60  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Hexachlorocyclopentadiene   | <770        |           | 770 | 220 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Hexachloroethane            | <190        |           | 190 | 58  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MM-01(0-1)-041315**

**Lab Sample ID: 500-94625-8**

**Date Collected: 04/13/15 14:40**

**Matrix: Solid**

**Date Received: 04/14/15 13:00**

**Percent Solids: 86.2**

**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>430</b>  |           | 38       | 9.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Isophorone                    | <190        |           | 190      | 43  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Naphthalene                   | <38         |           | 38       | 5.9 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Nitrobenzene                  | <38         |           | 38       | 9.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| N-Nitrosodi-n-propylamine     | <190        |           | 190      | 47  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| N-Nitrosodiphenylamine        | <190        |           | 190      | 45  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Pentachlorophenol             | <770        |           | 770      | 620 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Phenanthrene</b>           | <b>360</b>  |           | 38       | 5.3 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Phenol                        | <190        |           | 190      | 85  | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| <b>Pyrene</b>                 | <b>1300</b> |           | 38       | 7.6 | ug/Kg | ☼ | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Surrogate                     | %Recovery   | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol          | 82          |           | 35 - 137 |     |       |   | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Fluorobiphenyl              | 63          |           | 25 - 119 |     |       |   | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| 2-Fluorophenol                | 59          |           | 25 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Nitrobenzene-d5               | 58          |           | 25 - 115 |     |       |   | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Phenol-d5                     | 51          |           | 31 - 110 |     |       |   | 04/17/15 17:30 | 04/21/15 05:10 | 1       |
| Terphenyl-d14                 | 107         |           | 36 - 134 |     |       |   | 04/17/15 17:30 | 04/21/15 05:10 | 1       |

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

| Analyte          | Result        | Qualifier  | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic          | <0.050        |            | 0.050  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| <b>Barium</b>    | <b>0.46</b>   | <b>J</b>   | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| Beryllium        | <0.0040       |            | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| <b>Cadmium</b>   | <b>0.0023</b> | <b>J</b>   | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 18:00 | 1       |
| Chromium         | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| Cobalt           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| <b>Copper</b>    | <b>0.019</b>  | <b>J B</b> | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| Iron             | <0.20         |            | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| <b>Lead</b>      | <b>0.020</b>  |            | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 18:00 | 1       |
| <b>Manganese</b> | <b>1.0</b>    |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| Nickel           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| Selenium         | <0.050        |            | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| Silver           | <0.025        |            | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 01:10 | 1       |
| <b>Zinc</b>      | <b>0.20</b>   | <b>B</b>   | 0.20   | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 18:00 | 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 |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| <b>Barium</b>    | <b>0.33</b>  | <b>J</b>  | 0.50   | 0.050  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| Beryllium        | <0.0040      |           | 0.0040 | 0.0040 | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| Cadmium          | <0.0050      |           | 0.0050 | 0.0020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:10 | 1       |
| <b>Chromium</b>  | <b>0.085</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| <b>Cobalt</b>    | <b>0.015</b> | <b>J</b>  | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| <b>Copper</b>    | <b>0.091</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| <b>Iron</b>      | <b>66</b>    |           | 0.20   | 0.20   | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| <b>Lead</b>      | <b>0.15</b>  |           | 0.0075 | 0.0075 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:10 | 1       |
| <b>Manganese</b> | <b>0.48</b>  |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| <b>Nickel</b>    | <b>0.061</b> |           | 0.025  | 0.010  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| Selenium         | <0.050       |           | 0.050  | 0.020  | mg/L |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

**Client Sample ID: MM-01(0-1)-041315**

**Lab Sample ID: 500-94625-8**

Date Collected: 04/13/15 14:40

Matrix: Solid

Date Received: 04/14/15 13:00

**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 |   | 04/20/15 08:35 | 04/21/15 04:41 | 1       |
| <b>Zinc</b> | <b>0.33</b> |           | 0.20  | 0.020 | mg/L |   | 04/20/15 08:35 | 04/21/15 21:10 | 1       |

**Method: 6010B - Total Metals**

| Analyte          | Result        | Qualifier  | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|------------|------|-------|-------|---|----------------|----------------|---------|
| Antimony         | <1.1          |            | 1.1  | 0.22  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Arsenic</b>   | <b>4.7</b>    |            | 0.54 | 0.25  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Barium</b>    | <b>53</b>     |            | 0.54 | 0.099 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Beryllium</b> | <b>0.49</b>   |            | 0.22 | 0.047 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Cadmium</b>   | <b>0.33</b>   |            | 0.11 | 0.031 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Calcium</b>   | <b>140000</b> | <b>B</b>   | 120  | 37    | mg/Kg | ☼ | 04/20/15 17:45 | 04/22/15 14:19 | 10      |
| <b>Chromium</b>  | <b>15</b>     |            | 0.54 | 0.093 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Cobalt</b>    | <b>8.0</b>    |            | 0.27 | 0.061 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Copper</b>    | <b>23</b>     |            | 0.54 | 0.12  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Iron</b>      | <b>10000</b>  |            | 12   | 4.5   | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:31 | 1       |
| <b>Lead</b>      | <b>100</b>    |            | 0.27 | 0.13  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Magnesium</b> | <b>34000</b>  |            | 5.4  | 2.2   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Manganese</b> | <b>340</b>    |            | 0.54 | 0.11  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Nickel</b>    | <b>13</b>     |            | 0.58 | 0.16  | mg/Kg | ☼ | 04/20/15 17:45 | 04/21/15 19:31 | 1       |
| <b>Potassium</b> | <b>1500</b>   |            | 27   | 4.4   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| Selenium         | <0.54         |            | 0.54 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| Silver           | <0.27         |            | 0.27 | 0.063 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Sodium</b>    | <b>680</b>    | <b>B</b>   | 54   | 7.1   | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| Thallium         | <0.54         |            | 0.54 | 0.27  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Vanadium</b>  | <b>19</b>     |            | 0.27 | 0.079 | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 1       |
| <b>Zinc</b>      | <b>81</b>     | <b>B ^</b> | 1.1  | 0.34  | mg/Kg | ☼ | 04/15/15 16:45 | 04/17/15 03:22 | 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 |   | 04/20/15 13:30 | 04/21/15 13:12 | 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 |   | 04/20/15 15:30 | 04/21/15 14:08 | 1       |

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

| Analyte        | Result    | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| <b>Mercury</b> | <b>25</b> |           | 19 | 6.6 | ug/Kg | ☼ | 04/16/15 14:00 | 04/17/15 12:04 | 1       |

**General Chemistry**

| Analyte   | Result      | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| <b>pH</b> | <b>8.40</b> |           | 0.200 | 0.200 | SU   |   |          | 04/17/15 15:50 | 1       |

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| X         | Surrogate is outside control limits                                                                            |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                              |

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| F2        | MS/MSD RPD exceeds 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. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |

## Glossary

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



# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Wheeling - WO 014

TestAmerica Job ID: 500-94625-1

## 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           | 04-30-16        |

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 6  
Phone: 708.534.5200 Fax: 708.534.5200



500-94625 COC

Report To (optional)  
Contact: S. Babuskawa  
Company: Weston Solutions  
Address: 300 Plaza Cir  
Mundelein, IL  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-94625

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

Page 5 of \_\_\_\_\_

Temperature °C of Cooler: 33, 3.5, 2, 9, 30

| Client                   |        | Client Project #           |             | Preservative |                 | Parameter |      | Matrix          |        | Comments                                                                                                                                                                                    |    |
|--------------------------|--------|----------------------------|-------------|--------------|-----------------|-----------|------|-----------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <u>Weston</u>            |        | <u>IDOT 014</u>            |             |              |                 |           |      |                 |        | Preservative Key<br>1. HCL, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |    |
| Project Name             |        | Lab Project #              |             | Date         |                 | Time      |      | # of Containers |        | Matrix                                                                                                                                                                                      |    |
| <u>IDOT 014 Wheeling</u> |        |                            |             |              |                 |           |      |                 |        |                                                                                                                                                                                             |    |
| Project Location/State   |        | Lab PM                     |             | Date         |                 | Time      |      | # of Containers |        | Matrix                                                                                                                                                                                      |    |
| <u>Wheeling IL</u>       |        | <u>curright</u>            |             |              |                 |           |      |                 |        |                                                                                                                                                                                             |    |
| Sampler                  |        | Lab PM                     |             | Date         |                 | Time      |      | # of Containers |        | Matrix                                                                                                                                                                                      |    |
| <u>Colomb</u>            |        |                            |             |              |                 |           |      |                 |        |                                                                                                                                                                                             |    |
| Lab ID                   | MS/MSD | Sample ID                  | Date        | Time         | # of Containers | Matrix    | VOCs | SVOCS           | Metals | Temp/Sp/Slp                                                                                                                                                                                 | pH |
| <u>1</u>                 |        | <u>GL-1(0-5)-041315</u>    | <u>4/13</u> | <u>1405</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>2</u>                 |        | <u>GL-1(5-10)-041315</u>   | <u>4/13</u> | <u>1410</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>3</u>                 |        | <u>GL-1(10-15)-041315</u>  | <u>4/13</u> | <u>1415</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>4</u>                 |        | <u>GL-2(0-5)-041315</u>    | <u>4/13</u> | <u>1420</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>5</u>                 |        | <u>GL-2(0-5)-041315D</u>   | <u>4/13</u> | <u>1420</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>6</u>                 |        | <u>GL-3(0-1)-041315</u>    | <u>4/13</u> | <u>1430</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>7</u>                 |        | <u>CB 31-1(0-1)-041315</u> | <u>4/13</u> | <u>1435</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |
| <u>8</u>                 |        | <u>4MM-01(0-1)-041315</u>  | <u>4/13</u> | <u>1440</u>  | <u>2</u>        | <u>S</u>  | ↓    | ↓               | ↓      | ↓                                                                                                                                                                                           | ↓  |

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  3 weeks Other

Sample Disposal

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

|                                                                                                   |                                                                                               |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>4/13/15</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/13/15</u> Time: <u>1500</u>     |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>4/14/15</u> Time: <u>1300</u>     | Received By: <u>[Signature]</u> Company: <u>TA-ENG</u> Date: <u>4/14/15</u> Time: <u>1300</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: